

CLARITY CL2118.SP

DIRECT VENT GAS ROOM HEATER
with Standing Pilot (SP)
For use with natural gas (NG) or propane (LPG)





OPERATION & INSTALLATION MANUAL

WARNING: If the information in these instructions are not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

Date Installed:	
Serial No.:	

Installer: Please complete the details on the back cover and leave this manual with the homeowner. Homeowner: Please keep these instructions for future reference.

Pour la version française de nos manuels S.V.P. vous référez à notre site web: www.blazeking.com

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Manufactured By

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SAFETY PRECAUTIONS

MARNING

FIRE OR EXPLOSION HAZARD Failure to follow safety warnings exactly could result in serious injury, death, or property damage.

 Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

— WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- · Leave the premises.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

This appliance may be installed in an aftermarket, permanently located, manufactured (mobile) home, where not prohibited by local codes.

This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used.

A safety screen designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed for the protection of children and other at-risk individuals. If the safety screen becomes damaged, the safety screen shall be replaced with the manufacturer's safety screen for this appliance.

WARNING



HOT GLASS WILL CAUSE BURNS.

DO NOT TOUCH GLASS UNTIL COOLED.

NEVER ALLOW CHILDREN TO TOUCH GLASS.

CALIFORNIA PROPOSITION 65

WARNING: This product can expose you to chemicals including benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information:

www.P65Warnings.ca.gov

NOTE: Failure to follow these instructions could cause a malfunction of the fireplace, which could result in death, serious bodily injury, and/or property damage.

GENERAL

- Installation and repair should be done by a qualified service person. The appliance should be inspected before the first use and, at least, annually by a qualified service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative the control compartments, burners and circulating air passageways of the appliance be kept clean.
- If the CLARITY CL2118 is pulled out of its installation, and the vent-air intake pipes is disconnected for any reason, ensure that the vent-air intake pipes are reconnected and re-sealed in accordance to the instructions noted in INSTALLATION - VERTICAL VENT INSTALLATION or REAR VENT INSTALLATION.
- · Due to high temperatures, the appliance should be located out of high traffic areas and away from furniture and draperies.

Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burn or clothing ignition.

- Young children should be carefully supervised when in the same room as the appliance. Toddlers, young children and others may be
 susceptible to accidental contact burns. A physical barrier (safety screen) is required if there are at risk individuals in the house. To restrict
 access to a fireplace or stove install an adjustable safety gate to keep toddlers, young children and other at risk individuals out of the room
 and away from hot surfaces. Any safety screen, guard, or barrier removed for servicing an appliance must be replaced prior to operating
 the appliance.
- Clothing or other flammable materials should not be placed on or near the appliance.

SAFETY PRECAUTIONS

YOUR SAFETY

- Have the venting system inspected annually by a qualified installer for blockage and signs of deterioration.
- To prevent injury, do not allow anyone who is unfamiliar with the stove to operate it.
- To prevent injury, if the pilot or pilot and burners have gone out on their own, open the glass door and wait 5 minutes to air out before attempting to relight the stove.
- Always keep the area around these appliances clear of combustible material, gasoline and other flammable liquids and vapors.
- These appliances should not be used as a drying rack for clothing or for hanging Christmas stockings/ decorations.
- Due to the paint curing on the stove, a faint odor and slight smoking will likely be noticed when the stove is first used. Open a window until the smoking stops.
- Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.
- Do not abuse the glass by striking it or slamming the door shut.

MARNING

DO NOT OPERATE WITH THE GLASS FRONT REMOVED, CRACKED OR BROKEN. REPLACEMENT OF THE GLASS SHOULD BE DONE BY A LICENSED OR QUALIFIED SERVICE PERSON.

INSTALLATION

- Installation and service must be performed by a qualified installer, service agency or gas supplier
- Only doors certified with the appliance shall be used. (see door part numbers in "PARTS LIST")
- This installation must conform to local codes or, in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1 / NFPA 54 in the US, or the Natural Gas and Propane Installation Code, CSA B149.1 in Canada
- A manufactured home (USA only) or mobile home OEM installation must conform with the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280, or, when such a standard is not applicable, the Standard for Manufactured Home Installations, ANSI / NCSBCS A225.1, or Standard for Gas Equipped Recreational Vehicles and Mobile Housing, CSA Z240.4.
- Always connect this gas appliance to a vent system and vent to the outside of the building envelope. Never
 vent to another room or inside the building. Make sure the specified vent pipe is used, properly sized and of
 adequate height to provide sufficient draft.
- The flow of combustion and ventilation air must not be obstructed.
- The appliance and its appliance main gas valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psi (3.5 kPa).
- This gas appliance must not be connected to a chimney flue serving a separate solid-fuel burning appliance.
- The appliance, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, with the National Electrical Code, ANSI / NFPA 70, in the US, or the Canadian Electrical Code, CSA C22.1, in Canada.
- **Caution:** Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

MARNING

FAILURE TO POSITION THE PARTS IN ACCORDANCE WITH THE DIAGRAMS IN THIS BOOKLET, OR FAILURE TO USE ONLY PARTS SPECIFICALLY APPROVED WITH THIS APPLIANCE, MAY RESULT IN PROPERTY DAMAGE OR PERSONAL INJURY.

GENERAL INFORMATION

APPLIANCE CERTIFICATION

This appliance is tested and certified to the following US and Canadian gas appliance standards:

- ANSI Z21.88-2016 / CSA 2.33b-2016 Vented Gas Fireplace Heaters,
- CAN/CGA-2.17-M91 (R2014) Gas-Fired Appliance for Use at High Altitudes
- CSA P.4.1-15 Testing Method for Measuring Annual Fireplace Efficiency

STEADY STATE EFFICIENCY			
Steady State Efficiency - High	Effy _{ss.H}	71.01%	
Fireplace Efficiency	FE	60.72%	

INSTALLATION CODES

This appliance must be installed by a qualified gas appliance installer. This appliance is certified for installation in a bedroom or a bedsitting room. This appliance is only for use with the type of gas indicated on the rating plate and may be installed in an aftermarket, permanently located, manufactured (mobile) home where not prohibited by local codes. This appliance is not convertible for use with other gases, unless a certified kit is used. Only for direct discharge without duct connection. This appliance must be direct vented using listed and approved Simpson Dura-Vent, Selkirk, Security or American Metal Products vent components.

We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute (NFI) as NFI Gas Specialists.



SPECIFICATIONS

MODEL CL2118.SP	Natural Gas (NG)	Propane (LPG)
Manifold Pressure	3.8 in. w.c. (0.95kPa)	10.6 in. w.c. (2.64 kPa)
Min. Supply Pressure for Purpose of Input Adjustment	7 in. w.c. (1.74 kPa)	11.0 in. w.c. (2.74 kPa)
Orifice Size	DMS #39	DMS #1.5 mm
Nominal Input Rating	27,300 BTU/hr	26,200 BTU/hr
Minimum Input Rating	14,838 BTU/hr	14,120 BTU/hr
Altitude	0 - 4,500 ft. (0 - 1372 m)	0 - 4,500 ft. (0 - 1372 m)
Primary Air Opening	50% (Minimum)	open
Electrical Rating	120 V.A.C. System	120 V.A.C. System

HIGH ALTITUDE INSTALLATION

When installing this appliance beyond 4500 ft. (1372 m) above sea level, the appliance must be properly derated and installed according to local codes, in the absence of local codes, with the current National Fuel Gas Code, ANSI Z223.1/ NFPA 54, in the US or Installation Code, CSA-B149.1, in Canada.

CERTIFICATION LABEL



4011009 5007099

CLARITY CL2118.SP □ CLARITY CL2118.IPI □

SN - 26

Listed vented gas fireplace heater / Poêle certifié au gaz avec évacuation MODEL MODELE: Clarity CL2118 top venting appliance / Clarity CL2118 appareil ventilé vers le haut
This stove is factory equipped for 0-1372 m (0-4500 ft) / Ce poêle est manufacturé et équipé pour 0-1372 m (0-4500 pied)

UNITED STATES AND CANADA / ÉTATS-UNIS ET LE CANADA: Conforms to ANSI Z21.88-2016; Certified to CSA 2.33-2016 Vented Gas Fireplace Heater, CGA 2.17-M91(R2014), Gas Fireplaces For Use At High Altitudes. Conforme à ANSI Z21.88-2016; Certifié CSA 2.33-2016 Poèle au gaz avec évent et CGA 2.17-M91(R2014) Appareils de chauffage au gaz utilisés en hautes altitudes.

20101 one da gaz avec event et oom 2:17 mor(tee 14) Apparens de chadhage da gaz atmocs en hadres dictades.				
Model: Clarity CL2118 top vent appliance	□NATURAL GAS	□LP GAS		
Modèle: Clarity CL2118 appareil de ventilation vers le haut				
Orifice (DMS) 0-1372 m	39	1.5 mm		
Input rating / Puissance d'entrée (BTU/hr / Kw) 0-1370m 0-4,500 ft Alt.	27,300 / 8.00	26,200 / 7.68		
Minimum Input / Entrée Minimum (BTU/hr / Kw)	14,838 / 4.35	14,120 / 4.14		
Manifold Pressure High setting / Manifold Pression réglé à High (In w.c. / kPa)	3.8 / 0.95	10.6 / 2.64		
Manifold Pressure Lo setting / Manifold Pression réglé à Lo (In w.c. / kPa)	1.1 / 0.27	2.9 /0.72		
Minimum Inlet Pressure / Pression minimum d'admission (In w.c. / kPa)	7.0 / 1.74	11.0 / 2.74		

This appliance must be installed in accordance with local codes, if any; if none, follow the National Fuel Gas Code, ANSI Z223.1 / NFPA 54, or the Natural Gas and Propane Installation Code, CSA B149.1.

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage. Refer to the owner's manual provided with this appliance. For assistance or additional information consult a qualified installer, service agency, or the gas supplier. Hot while in operation. Do not touch. Keep children, clothing, furniture, gasoline and other liquids having flammable vapors away. Keep burner and control compartment clean. See installation and operating instructions accompanying appliance. VENTED GAS FIREPLACE HEATER -NOT FOR USE WITH SOLID FUEL. For use with glass doors certified with the appliance only. Do not operate this appliance with glass removed, cracked or broken. Replacement of the panel(s) should only be done by a qualified person. For use only with barrier Part No. 645.1821. Also for use in OEM / mobile(manufactured) homes after home is on site. Convertible for use with natural gas or propane as follows: For natural gas when equipped with orifice #39; For propane when equipped with orifice 1.5 mm. May be installed in a bedroom or sitting room when installed with a listed thermostat control in Canada.

Cet appareil doit être installé selon les codes locaux, s'il y en a: sinon suivez l'actuel ANSI Z223.1 / NFPA 54 ou Gaz Naturel et Propane Codes,

MISE EN GARDE: Une mauvaise installation, un ajustement, une altération, service ou entretien peuvent causer des blessures ou des dommages à la propriété. Consultez le manuel du propriétaire fourni avec cet appareil. Pour assistance ou information additionnelle, consultez un installateur qualifié, agence de service ou votre fournisseur de gaz. Chaud lorsque l'appareil fonctionne. Ne pas toucher. Tenir loin des enfants, vêtements, meubles, essence et autres liquides ayant des vapeurs inflammables. Tenir le compartiment du brûleur et de contrôle propre. Voir les instructions de l'installation et du fonctionnement accompagnant cet appareil. FOYER AU GAZ AVEC ÉVENT —NE PAS UTILISER AVEC DU COMBUSTIBLE SOLIDE. Utiliser seulement avec des portes vitrées certifiées pour cet appareil. Ne pas opérer cet appareil, si la vitre est manquante, craquée, ou brisée. Le remplacement des panneaux de verre seulement être fait par une personne qualifiée. À utiliser uniquement avec le numéro de pièce de barrière 645.1821. Aussi pour l'usage dans les maisons mobiles (manufacturées) après que la maison soit installée sur le site. Pouvant être converti pour usage avec le gaz naturel ou le propane comme suit: Pour le gaz naturel une fois équipé d'un orifice # 39.; Pour le propane une fois équipé de l'orifice # 1.5 mm. Peut être installé dans une chambre à coucher ou un salon une fois installé avec un thermostat approuvé au Canada.

MINIMUM CLEARANCES TO COMBUSTIBLES / DÉGAGEMENTS MINIMUM REQUIS ENTRE L'APPAREIL ET DES MATÉRIAUX COMBUSTIBLES			
Unit to sidewall / de l'unité au mur latéral	4" (102 mm)		
Unit to back wall / de l'unité au mur arrière	4" (102 mm)		
Unit corner to sidewall / du coin de l'unité au mur latéral	4" (102 mm)		
Unit to top (top vent & rear vent with snorkel) / de l'unité jusqu'en haut (évacuation sur le dessus et par l'arrière avec ens, périscopique (snorkel))	32" (813 mm)		
Unit to top (2'0" up and out vent) / unité jusqu'en haut (2' 0" au- dessus et au- dessous de l'évacuation)	45" (1143 mm)		
Vertical Vent / verticale évacuation murale extérieure	1" (25 mm) from outside surface / de la surface extérieure		
Horizontal Vent / horizontal évacuation murale extérieure	13" (330 mm) above / au dessus 2.5" (64 mm) beside / à côté de 1" (26 mm) below / au dessous de		
Floor clearance / Dégagements pour la surface de plancher	0" (0 mm)		

NOTE: CHECK LOCAL CODES FOR FLOOR REQUIREMENTS. THIS FIREPLACE IS SUITABLE FOR INSTALLATION ON A COMBUSTIBLE SURFACE. VÉRIFIER LES CODES LOCAUX POUR ÉQUIPEMENT DE SURFACE DE PLANCHER, CET APPAREIL PEUT ÊTRE INSTALLÉ SUR UNE SURFACE COMBUSTIBLE Electrical Rating: 115 Volts, 0.7 Amp, 60 Hz

DANGER: Risk of electrical shock. Disconnect power before servicing unit. Do not route power cord beneath heater. This appliance must be installed in accordance with the Standard CAN/CSA Z240 MH, Mobile Housing, in Canada, or with the Manufactured Home Construction and Safety Standard, Title 24CFR, Part 3280, in the United States, or when such a standard is not applicable, ANSI / NCSBCSA 225.1 / NFPA501A, Manufactured Home Installations Standard. This appliance is only for use with the type of gas indicated on the rating plate and may be installed in an aftermarket, permanently located, manufactured(mobile) home where not prohibited by local codes. See owners manual for details. This appliance is not convertible for use with other gases unless a certified kit is used. This vented gas fireplace is not for use with

Caractéristiques électriques: 115 Volts, 0.7 Amp, 60 Hz

DANGER: Risque d'électrocution. Débrancher le courant avant de réparer l'unité. Ne pas mettre le cordon d'alimentation en dessous de l'appareil de chauffage. Cet appareil doit être installé selon les codes CAN/CSA Z240 MH, maisons mobiles (manufacturées), au Canada, sinon applicable, utilisez ANSI / NCSBCS A225.1/NFPA 501 A, Installation d'une maison mobile standard.

Cet appareil peut être utilisé seulement avec le type de gaz indiqué sur la plaque de contrôle et peut être installé dans un marché des accessoires, maison (mobile) de manière permanente placée et manufacturée où ils ne sont pas interdit par des codes. Voir le manuel d'installation pour des détails. Cet appareil ne peut pas être converti pour l'usage avec d'autres gaz à moins qu'un kit de conversion certifié soit employé. Ce foyer au gaz à évacuation ne pas être utilisé avec des filtres à air.

MANUFACTURED IN:

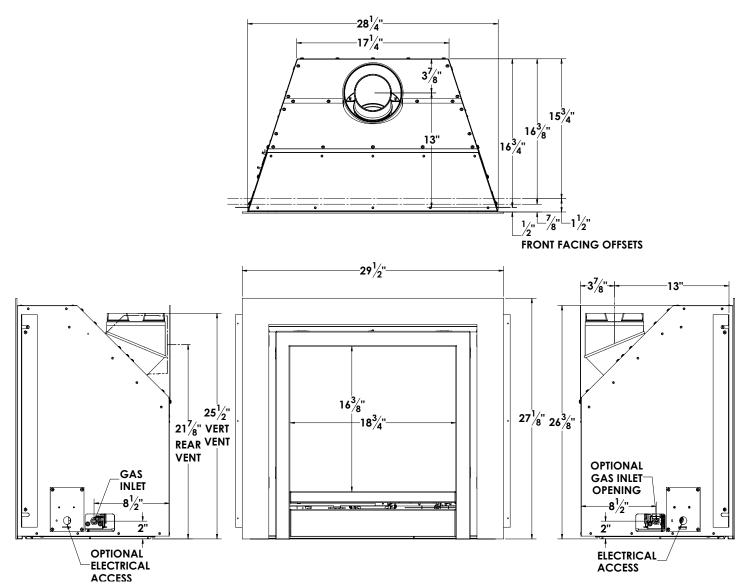
MANUFACTURE DATE

☐ USA: Blaze King Industries 146A Street, Walla Walla, WA. 99362 1290 Commercial Way, Penticton, B.C. V2A 3H5

☐ CANADA: Valley Comfort Systems

JAN - FEB - MAR - APR - MAY - JUN -JUL □ AUG □ SEP □ OCT □ NOV □ DEC □ 2018 🗆 2019 🗆 2020 🗆 2021 🗆 2022 🗆 2023 🗆 170-0239[1117].indd

DIMENSIONS



NOTE: TURNING ON YOUR APPLIANCE WHEN IT HAS BEEN OFF FOR AWHILE MAY CAUSE CONDENSATION TO APPEAR ON THE GLASS. THIS IS A NORMAL OCCURRENCE AS YOUR APPLIANCE HEATS UP.

CLEARANCE TO COMBUSTIBLES			
Side of unit to sidewall	4" (102 mm)		
Back of unit to back wall	4" (102 mm)		
Corner of unit to sidewall	4" (102 mm)		
Unit to top (top vent & rear vent with snorkel)	32" (813 mm)		
Unit to top (2'0" up and out vent)	45" (1143 mm)		
Vertical Vent	1" (25 mm) from outside surface		
Horizontal Vent	13" (330 mm) above / au dessus 2.5" (64 mm) beside / à côté de 1" (26 mm) below / au dessous de		
Floor clearance	0" (0 mm)		

LIGHTING INSTRUCTIONS

FOR YOUR SAFETY, READ BEFORE LIGHTING

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- This appliance has a pilot which is lit with a push button piezo lighter. When lighting the pilot, follow these instructions exactly.
- B. BEFORE LIGHTING, smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS:

- Do not try to light any appliance.
- Do not touch any electric switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas suppliers instructions.
- If you cannot reach your gas supplier, call the fire department.
- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

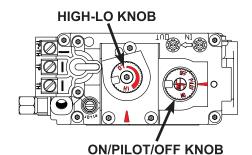
LIGHTING INSTRUCTIONS

- 1. STOP! Read the safety information above.
- Set the thermostat to the lowest setting.
- Valve controls are accessed by lowering the hinged panel that is below the firebox.
- Set the manual burner switch to the "OFF" position.
- Push in gas control knob slightly and turn clockwise to "OFF".
- 6. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above. If you don't smell gas, go to the next step.

 7. Turn control knob counterclockwise to "PILOT" position.
- 8. Depress control knob and push in Piezo ignitor button. Once pilot ignites, continue to hold the control knob in for about one (1) minute after the pilot is lit. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 6 through 8.
 - If knob does not pop up when released, stop and immediately call your service technician or gas
 - If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.
- Turn gas control knob counter clockwise to "ON". Turn on all electric power to the appliance. Set thermostat to the desired setting or set the manual burner switch to the "ON" position.

TO TURN OFF GAS TO THE APPLIANCE

- 1. Set the thermostat to the lowest setting.
- Turn off all electric power to the appliance if service is to be performed.
- Push in gas control knob slightly and turn clockwise to "OFF". Do not force.

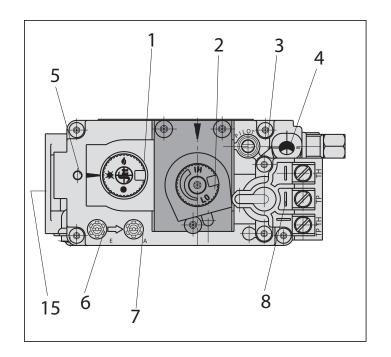


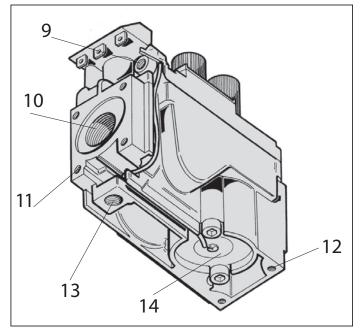
WARNING

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the owner's information manual provided with this appliance. For assistance or additional information, consult a qualified installer, service agency or your gas supplier.

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820 NOVA VALVE



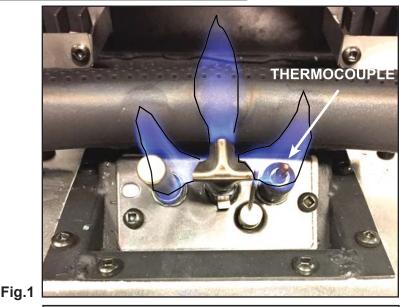


	820 NOVA VALVE		
1	ON/PILOT/OFF Knob		
2	Manual HI-LO adjustment or pressure regulator adjustment		
3	Pilot adjustment		
4	Thermocouple connection		
5	Mounting for piezo & bracket		
6	Inlet pressure test point		
7	Outlet pressure test point		
8	Main operator		
9	Pilot outlet		
10	Main gas outlet		
11	Flange mounting screw holes		
12	Additional valve mounting holes		
13	Alternative TC connection point		
14	Thermoelectric unit		
15	Inlet		

OPERATING INSTRUCTIONS

PILOT LIGHT

Refer to the lighting instruction label on how to light the pilot. Check that the pilot has fully engulfed the thermocouple assembly (**Fig.1**).



LIGHTING THE BURNER Standing Pilot (SP)

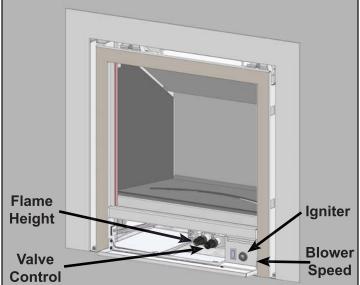
The CLARITY CL2118 SP controls are located behind the hinged flap beneath the firebox.(**Fig.2**) To light the burner follow the steps below:

- Make sure the pilot is lit (see "LIGHTING INSTRUCTIONS Standing Pilot")
- 2. Turn the "Valve Control" knob counterclockwise to ON.
- 3. Flip the flame ON/OFF switch, located beside the igniter to ON.(Fig.3)
- 4. Turn the "Flame Height" knob to the desired flame height.(Fig.2)
- 5. Turn on all electrical power to the unit.
- 6. NOTE: Burn the appliance on high, with the optional blower OFF, for the first two to three hours. This will cure all the paint, gasket, and seals. It is advised to open a door or window as the unit will smoke and give off odors as it is curing.

OPTIONAL BLOWER

An optional blower is available for the CLARITY CL2118 SP and CLARITY CL2118 IPI, the S.Z5277. SP and S.Z5277.IPI blower kits respectively. For installation refer to the installation instructions provided with the kit.

Turn the blower on by turning the "Fan speed" knob clockwise (Fig.2) The blower will only come on when the fireplace is up to temperature (approximately 10-15 minutes). Fan speed control sequence is off, then maximum to minimum. The speed of the fan can be decreased by turning the knob clockwise . The speed of the fan can be increased by turning the knob counterclockwise . The blower will continue to operate after the burner is turned off (approximately 15-20 minutes). To turn the blower off manually, turn the fan control knob counterclockwise until it "clicks".



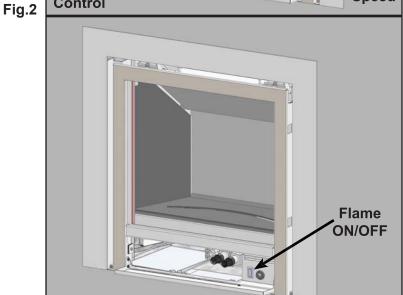


Fig.3

ROUTINE MAINTENANCE Regularly:

- Clean and remove any lint accumulations or debris from the grills and combustion or convection air passage ways.
- Keep the appliance area free from combustible materials, such as paper, wood, clothing, gasoline, flammable solids, liquids and vapors.
- Visually check the height and color of the burner and pilot flames. The pilot flame should be blue with little or no yellow on the tips.
- Check for unusual noises or odors during operation of the appliance.
- Check the vent terminal for any damage, or obstruction by plants or debris accumulation.

It is recommended to periodically have your appliance serviced by a qualified service technician:

- 1. Remove the glass door (see "GLASS DOOR REMOVAL" on next page) and clean the inside of the glass with a soft, non-abrasive cloth and water or a suitable, mild, non-abrasive cleaner.
- 2. Remove and clean the glass floor panel and set aside.
- 3. Remove and clean the floor panel assembly, check the burner to see if all the ports are clear and clean. Check the pilot assembly to make sure it is not blocked by anything. Use a vacuum to clear out any debris around the burner and valve.
- 4. Completely inspect the appliance and the venting system.
- 5. Check the safety system of the gas valve.

CLEANING SURFACES

Painted, powder coated, or porcelain enameled surfaces should be wiped with a damp cloth periodically. Ensure the appliance has cooled down completely before any cleaning. Do not use other cleaners as they may leave a residue which can become permanently etched into the surface.

CLEANING THE GLASS

MARNING

DO NOT TO CLEAN THE GLASS WHILE IT IS HOT

One of the by-products of combustion and moisture in the firebox is a white film which can show up on the glass of the viewing door. Initial curing of the appliance can also leave a slight film on the glass, which is a temporary problem.

- 1. Turn off the appliance and allow it to cool down completely.
- 2. Remove the glass door from the firebox (see "GLASS DOOR REMOVAL" on next page)
- 3. Check the gasket material on the back of the glass. Ensure that it is attached and intact.
- 4. Clean the glass with a mild glass cleaner and a soft cloth (see below). Abrasive cleaners will damage the glass

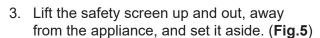
Slight soiling of SCHOTT ROBAX® panels can be removed using conventional glass cleaning products, provided they are used according to instructions of use, which means cleaning on cold surfaces. The residues should be removed since chemical attack is possible on exposure to temperature. The coated ROBAX® Mirror, ROBAX® TrueView, ROBAX® IR Max and ROBAX® Energy Plus can be cleaned with a soft cloth.

NOTE: IT IS NOT RECOMMENDED TO USE SCOURING PADS, ABRASIVE CLEANSERS OR SCOURING AGENTS, AS MAY CAUSE DAMAGE TO THE GLASS SURFACE. THE SCHOTT-RECOMMENDED DRY WIPER IS SUITABLE FOR USE ONLY ON UNCOATED FIRE VIEWING PANELS.

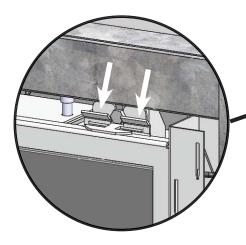
GLASS DOOR REMOVAL

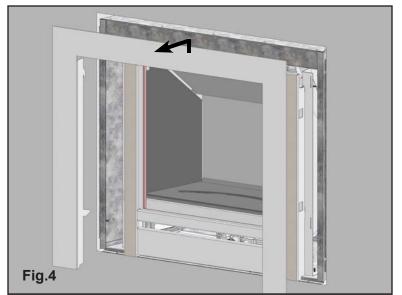
For installation, cleaning, and burner removal the glass door must be removed.

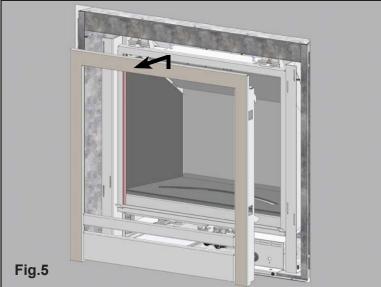
- 1. Turn off the appliance and allow it to cool down completely.
- 2. Lift the face trim up and out, away from the appliance, and set it aside.(**Fig.4**)

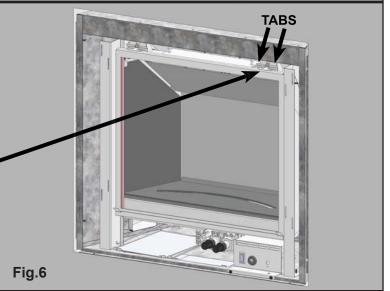












5. Carefully slide the door glass assembly up and out of the unit.(Fig.7)

GLASS DOOR REPLACEMENT

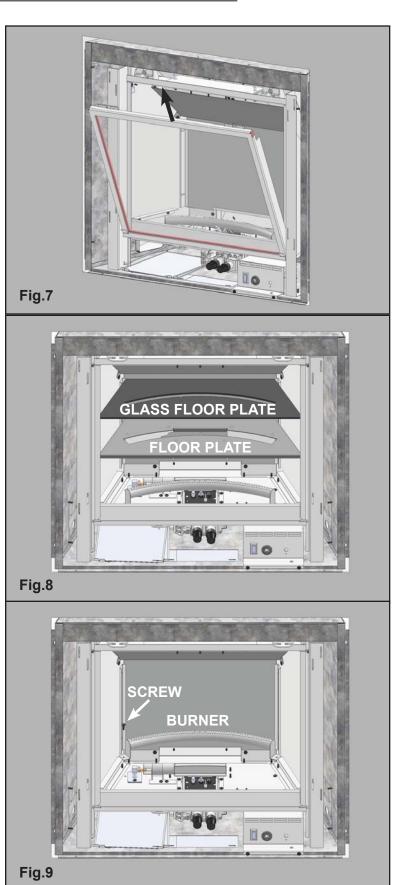
This glass in this appliance is a 5 mm high temperature ceramic glass that will easily withstand the heat that is produced. In the event the glass breaks or cracks, contact your dealer to arrange for your glass door replaced with a factory replacement (see "PARTS LIST"). Do not operate this appliance with the glass front removed, cracked, or broken. Removal and replacement of the glass from the door must be done by a qualified service technician. The glass door must be purchased from a Blaze King dealer. No substitute materials are allowed.

BURNER REMOVAL

- 1. Turn off the appliance and allow it to cool down completely.
- Remove the face trim, safety screen, and glass door. (see "GLASS DOOR REMOVAL" on previoius page)
- 3. Remove the glass floor plate and set it aside. (**Fig.8**)
- 4. Remove the floor plate assembly and set it aside.(Fig.8)

- 5. Remove the screw from the left hand side of the burner assembly.(**Fig.9**)
- 6. Move the burner to the right, up, and out.

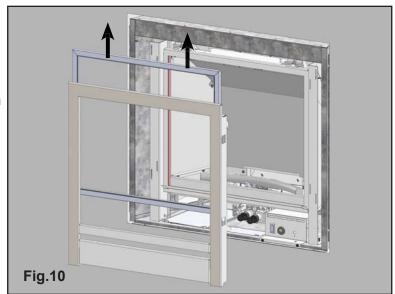
To re-install the burner follow steps 1 to 7 in reverse. Ensure the burner is centered in the curved burner slot of the floor plate.



SAFETY SCREEN REPLACEMENT

The CLARITY CL2118 is supplied with a safety screen pre-installed inside the door trim. If the safety screen becomes damaged it must be replaced with part #645.1821

- 1. Turn off the appliance and allow it to cool down completely.
- Remove the face trim and safety screen by lifting up and out. (see "GLASS DOOR REMOVAL")
- 3. Slide the safety screen out of the frame, the tabs may have to be adjusted. (Fig.10)
- 4. Slide the new safety screen in between the frame face and the tabs. Ensure screen mesh faces out, furthest from glass. (see image below)
- 5. Hang the safety screen back into position.
- 6. Hang the face trim back into position.





FUEL CONVERSION

MARNING

THIS CONVERSION KIT SHALL BE INSTALLED BY A QUALIFIED SERVICE AGENCY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND ALL APPLICABLE CODES AND REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION. IF THE INFORMATION IN THESE INSTRUCTIONS IS NOT FOLLOWED EXACTLY, A FIRE, EXPLOSION OR PRODUCTION OF CARBON MONOXIDE MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE. THE QUALIFIED SERVICE AGENCY IS RESPONSIBLE FOR THE PROPER INSTALLATION OF THE KIT. THE INSTALLATION IS NOT COMPLETE UNTIL THE OPERATION OF THE CONVERTED APPLIANCE IS CHECKED AS SPECIFIED IN THE INSTRUCTION MANUAL SUPPLIED WITH THE KIT. BEFORE PERFORMING THIS OR ANY SERVICE PROCEDURE, MAKE SURE THAT THE GAS SUPPLY TO THE UNIT AND THE ELECTRICAL SUPPLY ARE SHUT OFF.

CONVERSION KIT CONTENTS

The conversion kit contains the following parts:

- S.Z0760 (LPG)> #635.OR1.5 (1.5 mm orifice) and LPG regulator.
- S.Z0761 (NG)> #635.OR39 (#39 orifice) and NG regulator.
- Conversion Kit labels.

To convert from NG to LPG or reverse:

- 1. Turn off the appliance and allow it to cool down completely
- 2. Remove burner (see "BURNER REMOVAL" on previous page)
- 3. Replace main orifice
- 4. Convert pilot fuel (see below)
- 5. Replace regulator (see next page)

How to convert CLARITY CL2118 SP Pilot orifice:

- 1. Use a 7/16" wrench to loosen the pilot hood.
- 2. Push the little tab in and the little tab with hole should pop out. The hole stamp tab (LP) out is used for Propane. The stamped tab (NA) out is for Natural Gas.
- 3. Re-tighten the pilot hood.
- 4. Fill out the fuel conversion label and affix between the two labels on the control panel door.

All valves have been pre-set and certified for installation at elevations from 0 - 4500 feet (1 - 1372m) above sea level.

HIGH ELEVATIONS

When installing this unit at higher elevations, it is necessary to decrease the input rating by replacing the existing burner orifice with a smaller size for installations over 4500 feet (1370 m). Above 4500 ft, the appliance input should be reduced 4% for each additional 1000 feet (305m). For the USA, derate the unit according to the gas installation code.

installationinstructions

000

820 NOVA

HI/LO Conversion Kit

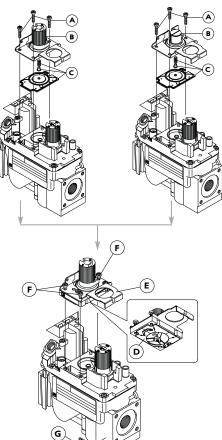


WARNING!

The installation of this conversion kit must only be undertaken by a qualified and certified gas appliance installer.

This installation or replacement instruction refer to HI-LO pressure regulator kit to be used to convert the 820 Nova Combination Gas Control with adjustable pressure regulator into manual HI-LO. The same kit can also be used for the conversion from LP to Natural Gas and vice versa of the 820 Nova with manual HI-LO.

- 1 Turn control knob to the OFF position, and shut off the gas supply to the valve.
- 2 Using a Torx T20, or slotted screwdriver, remove and discard the three pressure regulator mounting screws (A), pressure regulator tower (B), and the spring and diaphragm assembly (C).
- 3 Ensure the rubber gasket (D), which is prefitted as part of assembly (E), is properly positioned and install the new HI/LO pressure regulator assemble using the supplied screws (F).
 Tighten screws securely.
 (Reference torque = 25 lb·in).
- 4 Install the enclosed identification label (G) to the valve body where it can be easily seen.
- 5 Apply gas to system and re-light appliance according to manufacturers instructions.
- 6 With the main burner "ON", test the new pressure regulator assembly for leaks using a soap solution.
- 7 Relight the main burner in both the HI, and LO positions, and verify proper burner ignition and operation.



WARNING!

This HI-LO conversion kit must ONLY be applied as part of a conversion kit supplied by the APPLIANCE MANUFACTURER for the specific appliance, and type of gas, being converted.

INSTALLER NOTICE. These instructions must be left with appliance.



INSTALLATION PLANNING

This section of the owner's manual is for the use of qualified service technicians only. Fireplace placement, hearths, and venting terminations will be covered, as well as the gas and electrical systems. Please read "SAFETY PRECAUTIONS" at the front of this manual.

PRECAUTIONS

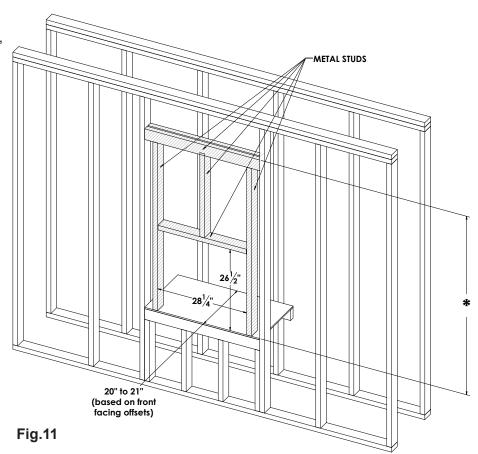
- The installation must conform to the installation codes.
- This appliance needs fresh air for safe operation and must be installed so there are provisions for adequate ventilation air. Provide adequate clearance around air openings of the appliance. Never obstruct front openings.
- Provide adequate clearances for proper operation and servicing of the appliance.
- This appliance must be properly connected to a venting system.
- The venting of this appliance must be installed in a location that is free of plumbing, electrical wiring and heating or air conditioning ducts.

Select a location that is accessible for venting.(see "ALLOWABLE TERMINATION LOCATIONS")

FRAMING - ROUGH OPENING

The CL2118 appliance can be raised. placed at floor level, or installed in a corner. Please see specific framing measurements for each situation on the following pages. The basic rough opening should have the dimensions shown in Fig.11. Any framing within specified combustion clearances must be non-combustible metal studs. Ensure the fireplace has a strong and level surface to be placed on. It can be made of wood or a non-combustible material. Any material such as studs must be noncombustible if they are within the clearances specified.

The gas line should be run to the right side of the appliance, it is also possible to run it to the left side if needed. See "**DIMENSIONS**" for gas inlet locations.



* CLEARANCE TO COMBUSTIBLES

For a 2'0" vertical and 6" out vent configuration the ceiling clearance to combustibles is 71 3/8" For a vertical vent configuration the ceiling clearance to combustibles is 58 3/8" For a 9" horizontal to snorkel vent configuration the ceiling clearance to combustibles is 58 3/8"

INSTALLATION PLANNING

FRAMING - CORNER INSTALLTION

The dimensions for installing the CL2118 appliance in a corner is shown in **Fig.12**. Do not interfere with the structural integrity of the walls. Shown below are minimum clearances; increasing these dimensions is allowable as long as vent length remains in the allowable range.

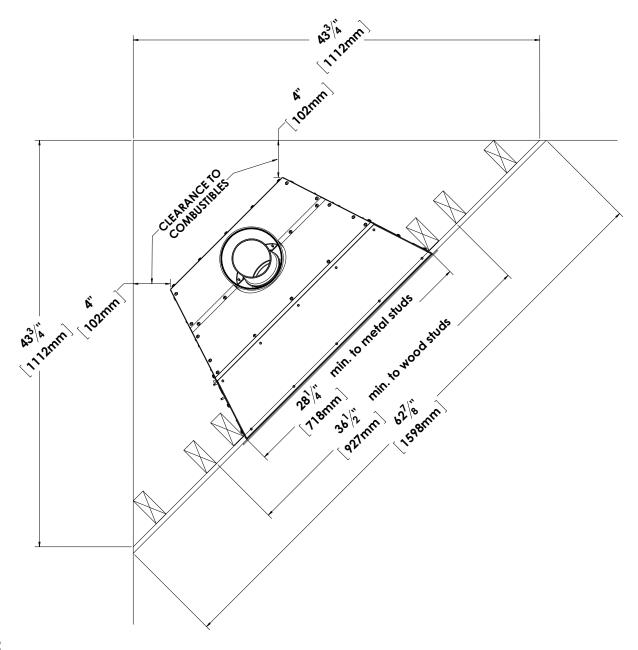
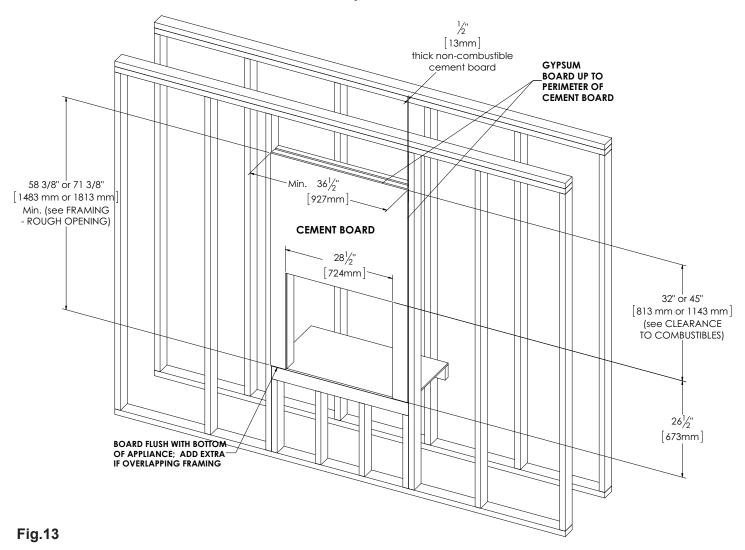


Fig.12

WALL FINISH

Non-combustible cement board. The CL2118 appliance requires a 1/2" (13 mm) thick non-combustible cement board to be used as a wall surface immediately surrounding the unit on each side (see **Fig13**. below) for minimum coverage. Extending the cement board well beyond the minimum shown will help avoid cracking due to differential expansion of materials. Pre-drill cement board with oversized holes and do not over-tighten screws to avoid cracking due to heat expansion. Standard gypsum wall board may be used beyond the perimeter of the cement board.

Non-combustible finishing over cement board. Additional non-combustible material such as tile, etc., may be applied over top of the cement board or you may choose to leave it finished clean with no tile—see next page. Be aware that a trim is always required and the trims will accept tile, etc. behind them up to 1" thick, depending on appliance side flange position. Additional non-combustible finishes, if desired, may be butted up to the trims. Finish should not cover the trims as they need to remain removable.



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INSTALLATION PLANNING

CRACKING WALL FINISHES

If a clean finish with no tile, etc. is desired, joints in the cement board and the transition to gypsum board will require special attention if future cracking is to be controlled. Be aware that temperatures on the noncombustible wall surface above the appliance can exceed 250°F. Below are some tips on how to best avoid any cracking:

- Allow materials to dry thoroughly before finishing the wall. Cement board has the ability to absorb up to 30 percent of its weight in water and may shrink as much as 1/8" over a 48" length when drying from a saturated condition. Running the fireplace before final finishing will help drive out moisture.
- Always pre-drill screw holes through cement board and use screws with self-milling head.
- Always use tape over joints.
- Behind joints, double up studs or use studs "on the flat" to add extra support to the joint. Adhesive on the backside of wall board behind any joints can help control differential movement.
- Use multiple, thinner coats of joint compound and allow to dry thoroughly between coats.
- Ensure framing materials are dry.
- After finishing the wall, introduce heat gradually to slowly dry any excess moisture rather than drying too fast.
- Avoid notching cement board or tiles around corners of window openings, and instead provide a joint that intersects the corner.

HARDWIRING FOR OPTIONAL BLOWER

There are electrical access panels on either side of the Clarity CL2118 SP for hardwiring power, install per local electrical building codes. Follow the steps below for running a hardwire power line to the Clarity CL2118 SP:

1. Ensure power is off. Run hardwire to either side of the unit. Remove the junction box plate assembly.



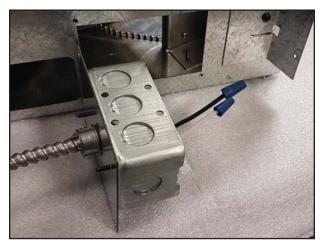
Remove the junction box coverplate. (2 screws)



3. Remove center knockout plug from juction box.



Add strain relief to hardwire and junction box.
 Leave approx 6" of line for inside connection. Add marrets to black and white wires.



 NOTE: If installing the optional blower now then connect wires from the blower, see STEP 2 on next page. Coil wires and refasten coverplate to the junction box.



6. Refasten junction box assembly to the side of the appliance.



OPTIONAL BLOWER INSTALLATION FOR EXISTING CL2118 INSTALLATION

1. If attached, unscrew junction box coverplate from inside. (2 screws)

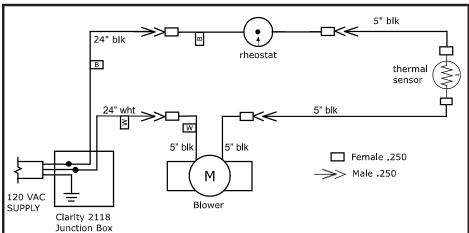


 Run the black and white wires from the blower through the end strain relief of the junction box.
 Connect the black to black and white to white wires with marrettes.



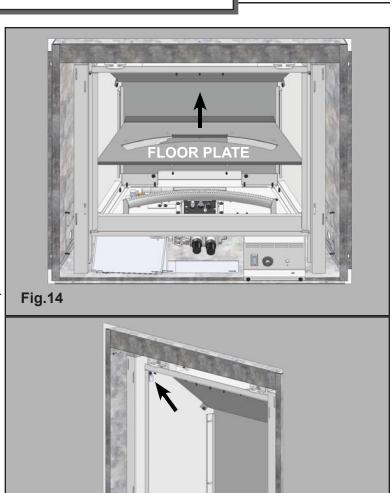
3. Coil the wires inside the junction box and refasten the cover plate.

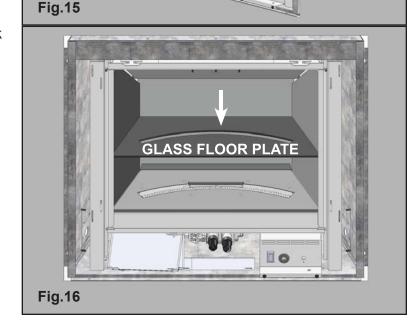




INITIAL SETUP

- Remove the safety screen, and door glass as shown in "GLASS DOOR REMOVAL", set assemblies aside.
- REMOVE THE STATIC CLING LABEL THAT IS ON THE DOOR GLASS. Hold glass to frame when removing as it is only held in place with silicone. Set the door glass assembly aside.
- Remove packaged contents from firebox and unwrap, HANDLE GLASS CAREFULLY BY THE EDGES, DO NOT LEAVE FINGERPRINTS, CLEAN IF NECESSARY. One package contains the floor glass, the other contains the side panels. Set glass panels aside in a safe place.
- 4. Remove floor plate assembly from appliance and set aside. (**Fig.14**)
- Loosen the top left tab as shown by arrow, install the left glass up under the tab and onto the support. (Fig.15) NOTE: THE SIDE WITH LABEL SHOULD BE FACING THE FIREBOX, REMOVE BEFORE FIRING. Retighten the tab. HANDLE GLASS CAREFULLY BY THE EDGES, DO NOT LEAVE FINGERPRINTS, CLEAN IF NECESSARY.
- 6. Repeat Step 5 for the right side panel.
- 7. Carefully place the floor plate assembly back into position.
- 8. Place the floor glass on top of the floor plate assembly. (Fig.16) NOTE: SMOOTH SIDE SHOULD FACE UP.





- 9. If installing the optional log set (**Fig.17**) refer to installation instructions supplied with log set, if not continue below.
- 10. Repeat "GLASS DOOR REMOVAL" steps in reverse order to complete initial setup.



Fig.17

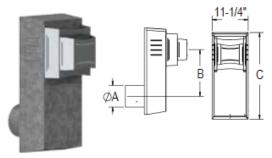
VENT TERMINATION LOCATION

- Establish a suitable vent termination location (see "VENT TERMINATION RESTRICTIONS")
- In heavy snowfall areas make sure vent termination is located where it will not be blocked by snowfall or snow from snow removal equipment.
- Locate vent termination away from plants, bushes, or any other object on or near the vent termination that will interfere or obstruct the air flow around it.
- DO NOT recess vent termination into walls, sidings, or planters.
- Vent terminations located below 7 ft (2130 mm) from grade level or anywhere that it is a burn hazard to the public, such as patios and balconies, must be protected with an approved termination cage.

REAR VENT INSTALLATION

Two snorkels are available that can be used in a rear vent application on the CLARITY CL2118. One is the M&G Duravent 46DVA-H2-SNK36 (**Fig.18**), and the other is the Selkirk 4DT-ST36 (**Fig.19**).

Snorkel H2 Termination Cap

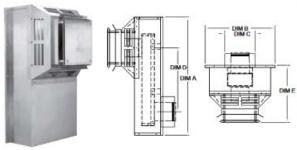


Use for horizontal through-the-wall termination when a vertical rise is desired in the system to meet appliance manufacturer recommended minimum heights. Do not enclose in the wall or install below grade. Provides improved performance in high wind conditions. Features an adjustable air intake and interchangeable shroud (shroud is included and required for all installations). Check with appliance manufacturer for approval and air throttle setting. Patent Pending.

SIZE	ORDER#	STOCK#	A	В	C
4" x 6 %"	46DVA-H2-SNK36	810012916	6¾"	37"	49 ½"

Fig.18

SNORKEL TERMINATION



 Use when horizontal termination is too close to grade or additional height is needed



Fig.19

CONVERSION TO REAR VENT

 Remove the back shelld from the appliance and discard. (Fig.20)

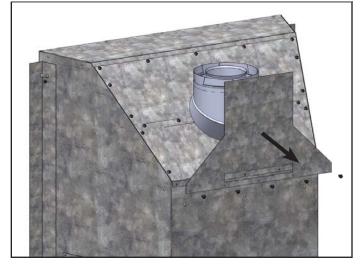


Fig.20

2. Remove upper flue access cover from the appliance and set aside. (Fig.21)

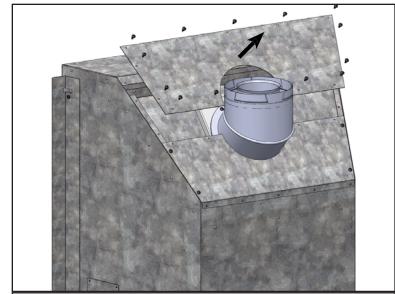


Fig.21

3. Remove the lower flue access cover from appliance and set aside. (Fig.22)

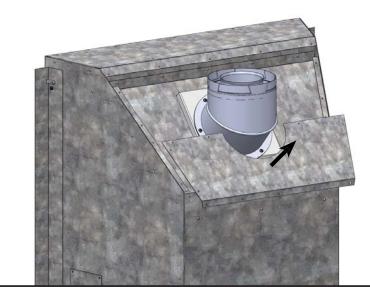


Fig.22

4. Unscrew flue collar from appliance. (6 screws) (Fig.23) Ensure that the sealing gasket is not damaged.

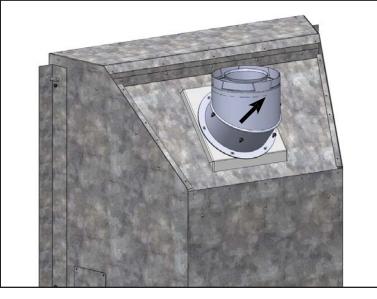


Fig.23

- 5. Rotate flue collar as shown and re-install to appliance (6 screws). Ensure gasket is seated properly. **(Fig.24)**
- 6. Re-install the flue access covers, discard the back sheild.

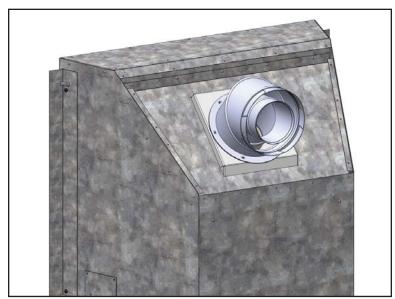


Fig.24

GAS CONNECTIONS

Have your gas supplier or a qualified gas fitter run a gas supply line to the gas fireplace. The line must be properly sized and fitted according to the installation codes with a manual shutoff ball valve. The inlet has a 3/8" female pipe thread.

MWARNING

THE APPLIANCE AND ITS INDIVIDUAL SHUTOFF VALVE MUST BE DISCONNECTED FROM THE GAS SUPPLY PIPING SYSTEM DURING ANY PRESSURE-TESTING OF THAT SYSTEM AT TEST PRESSURES IN EXCESS OF 1/2 PSI (3.5 KPA). THE APPLIANCE MUST BE ISOLATED FROM THE GAS SUPPLY PIPING SYSTEM BY CLOSING ITS INDIVIDUAL MANUAL SHUTOFF VALVE DURING ANY PRESSURE-TESTING OF THE GAS SUPPLY PIPING SYSTEM AT TEST PRESSURES EQUAL TO OR LESS THAN 1/2 PSIG (3.5 KPA). FAILURE TO DO SO WILL DAMAGE THE APPLIANCE'S GAS VALVE. SUCH DAMAGE IS NOT COVER BY THE MANUFACTURER'S WARRANTY.

- Check for proper gas supply pressure by loosening the set screw on supply pressure tap on the gas valve with a small flat tip screw driver and placing a test gauge on the tap. Refer to "820 NOVA VALVE" section.
- The minimum permissible gas supply pressure is 5.0 in. w.c. (1.24 kPa) for natural gas and 12.0 in. w.c. (3.0 kPa) for propane. Maximum gas supply pressure should never exceed 14.0 in. w.c. (3.48 kPa) or 1/2 psi. for both natural gas and propane.

BE SURE TO TIGHTEN THE PRESSURE TAP SET SCREW AFTER CHECKING THE PRESSURE.

Before connecting the appliance to the gas supply line, double check that the appliance you have purchased is designed for the gas type you are using. The gas type markings are located on the certification label and also on the appliance's gas valve.

Adequate clearance for proper installation and checking of the gas connections must be provided. All gas connections must be checked for gas leaks.

MARNING

ON VERTICAL PIPE RUNS A MINIMUM VENT CLEARANCE OF 1" (26 mm)
TO COMBUSTIBLES MUST BE MAINTAINED
ON HORIZONTAL PIPE RUNS A MINIMUM VENT CLEARANCE OF 13" (330 mm) ABOVE,
2 1/2" (64 mm) ON SIDES, AND 1" (26 mm) BELOW, MUST BE MAINTAINED

The rigid vent systems use twist lock connections. The flue collar attached to the unit connects to the approved venting system. While you are assembling the pipe, bear in mind the best visual appearance. Seams should be aligned and hidden as much as possible. Make sure you twist the mating section all the way to make a solid connection.

As this system is a sealed system, a high temperature sealing compound must be used to seal the metal to metal joint:

Apply a bead of high temperature sealant (non-silicone) to both the 4" exhaust and 6-5/8" intake section of the male pipe. The female section of the pipe/fitting has four indentations evenly spaced around the pipe. These indentations are designed to slide over the male section of the pipe and locate into the four entry slots of the male section of pipe. Twist the female section clockwise a quarter turn to fully lock the sections together.

NOTE: DO NOT USE SILICONE BASED SEALANTS

NOTE: ALLOWING HORIZONTAL VENT PIPE TO SLOPE DOWN TOWARDS THE VENT TERMINATION COULD CAUSE POOR COMBUSTION AND/OR HIGH TEMPERATURES THAT MAY PRESENT A FIRE HAZARD.

Mark a 10" x 10" square around the center mark (inside dimensions). Cut and frame the exterior wall to accept the wall penetration heat shield. Install the penetration shield using wood screws. If the wall being penetrated is constructed of non-combustible material a 7" hole is acceptable for the vent pipe.

CAUTION: When installing the termination on to vinyl siding, a vinyl siding kit must be used. This prevents the termination from being recessed into the siding.

When the termination is to be attached to vinyl siding apply a bead of non-hardening mastic around the outside edge to form a seal between the standoff and the termination cap. Attach the termination cap to the exterior wall inserting four wood screws through the holes in the corner of the vent termination. Complete the installation by applying a bead of mastic around the outer edge of the vinyl standoff.

With the termination cap installed you can now connect the completed vent assembly by sliding the unit back towards the wall and carefully inserting the pipe into the terminal. Before the final connection is made slide on the decorative wall thimble. Secure the termination cap by securing the termination straps to the pipe as close to the exterior wall as possible using sheet metal screws. Ensure that the straps are hidden by the wall thimble cover. Apply decorative trim if required.

VENTING

This appliance will not function without being connected to a proper venting system. This unit is certified for use with M&G Duravent, BDM, American Metal, Selkirk (Direct-Temp), Olympia, and ICC venting. Read the manufacturer's installation instructions before installing the venting system.

Typical Installation

- 24"(min) vertical vent pipe on top of the appliance,
- One 90° elbow, and up to 24" (max) horizontal run to the outside (with a 2' vertical rise).

Other installations

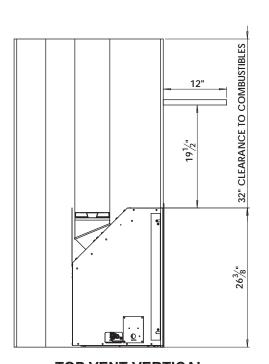
- Up to 4 90° elbows, or equivalent, maximum.
- Minimum 2' (610 mm) straight length between bends.
- The total vertical height up to 36' (10.97 m) maximum.
- Use vent restrictor on vents from 15' (4.57 m) to 20' (6.09 m) to obtain optimal flame appearance, see "VENT RESTRICTOR" and "BURNER FLAME APPEARANCE"
- The total horizontal run up to 20' (6.09 m) maximum.
- Note: 2' (0.6m) minimum of vertical height required.

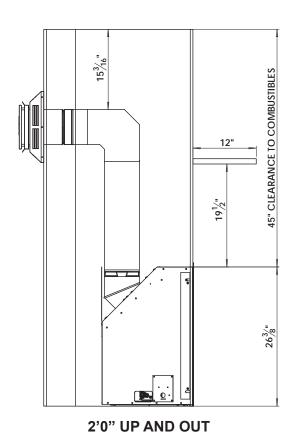
NOTE: Maximum vent lengths may be subject to local codes.

For best venting performance, here are some general venting rules:

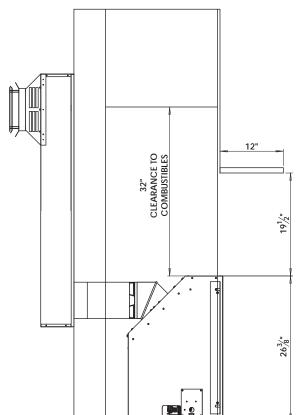
- 1. Use only vent systems and components certified for use with this appliance.
- 2. Maintain a minimum of 1" (26 mm) clearance to combustibles from the outside surfaces of vertical vents and minimum of 1" (26 mm) from bottom, 2 1/2" (64 mm) from sides, and 13" (330 mm) from top surfaces of horizontal vents. Always use a wall thimble when passing through combustible construction.
- 3. Observe all local code restrictions, if any, regarding the installation of this type of gas appliance.
- 4. Observe the Wvent height and length restrictions given in this manual.
- 5. Never slope horizontal vents downwards.
- 6. Maintain at least an upward slope of 1/4" (7 mm) for every 1 ft (305 mm) of horizontal vent.
- 7. Terminate the vent with a termination certified for use with this appliance.
- 8. Support horizontal vent every 3 ft (915 mm) to prevent it from sagging.
- 9. Ensure proper reassembly and resealing of the vent-air intake system when venting is installed, inspected, or replaced.

TYPICAL VENTING EXAMPLES





TOP VENT VERTICAL



REAR VENT WITH SNORKLE

VERTICAL VENT INSTALLATION

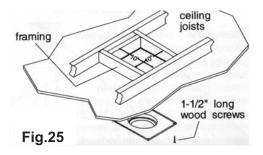
Always maintain the 1" clearance around the vent pipe (vertical), when passing through ceilings, walls, roofs, enclosures, attic rafters or any combustible surfaces.

DO NOT PACK AIR SPACES WITH INSULATION.

Refer to the vent chart for maximum allowable vertical and horizontal installations

When planning your installation determine if ceiling joists, roof rafters or other framing will obstruct the vent system. You may have to use 45° elbows to navigate around any obstacles. When passing through a flat ceiling install a Box/Wall thimble. Cut a 10" square hole and frame as shown.(Fig.25)

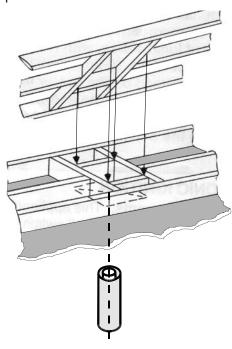
Ensure all pipe sections are fully twist locked.



NOTE: Always check your local codes before installing venting. Necessary clearances and requirements may vary from state to state (province to province).

Through Roof Framing

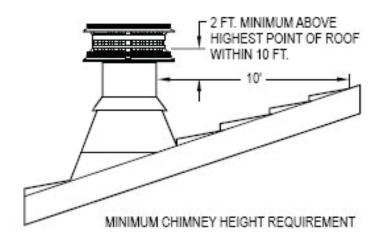
Maintain 10" opening relative to the pitch of the roof.



Use a suitable round or square support through the roof. Ensure adequate heat shield protection is provided.

Termination Above Roof

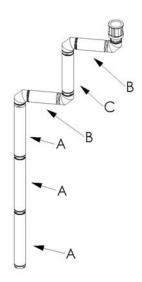
Consult local codes for minimum vent cap height above the roof, vent must be a minimum 2' from any wall.



Install the flashing with upper portion slid under the roofing material and the lower portion over the roofing material.

NOTE: DO NOT FASTEN DOWN UNTIL THE FINAL ADJUSTMENTS TO THE VENT HAVE BEEN MADE.

VERTICAL VENTING



Example 1

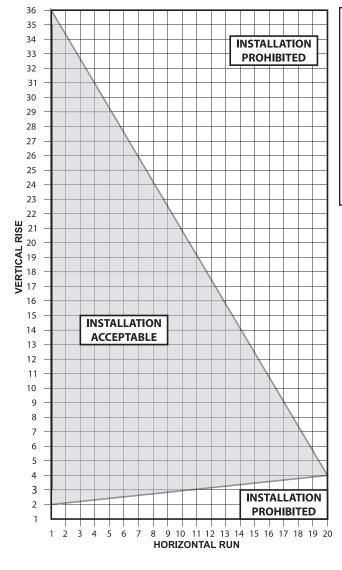
V Value = 3A(12') + 1C(3') = 15'

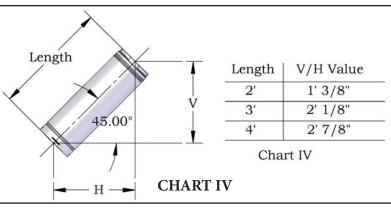
H Value = 2B(4') = 4'

V Value = Total length of all vertical sections in feet.H Value = Total length of all horizontal sections in feet.

Note:

- for H & V values for 45° venting, see Chart IV
- elbows are not counted in H or V values
- vent chart starts from the top of the unit





VENT TERMINATION RESTRICTIONS

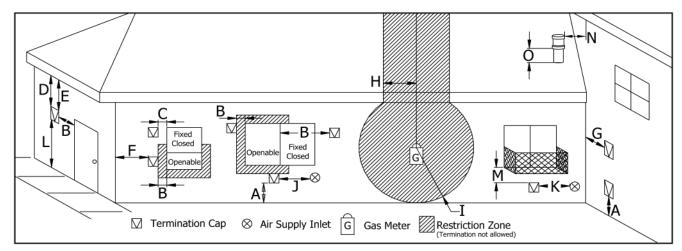


Fig.11 VENT TERMINATION RESTRICTIONS, REFER TO Table 1

Table 1 VENT TERMINATION CLEARANCES

Letter	Canadian Installation ¹	US Installation ²	Description
Α	12 in (30 cm)		Clearance above grade, verandah, porch, deck, or balcony.
В	12 in (30 cm)	9 in (23 cm)	Clearance from window or door that may be opened.
С	12 in (:	30 cm)*	Clearance from permanently closed window (to prevent condensation).
D	24 in (60 cm)*		Vertical clearance to ventilated soffit located above the terminal, within a horizontal distance of 2 ft (60 cm) from center line of terminal.
Е	12 in (30.5 cm) to 24" (61 cm)	Clearance to unventilated soffit.
F	12 in (30 cm)*	Clearance to outside corner.
G	12 in (30 cm)*	Clearance to inside corner.
Н	3 ft (91 cm) within a height of 15 ft (4.5 m) above the meter/ regulator assembly	3 ft (91 cm) within a height of 15 ft (4.5 m) above the meter/ regulator assembly*	Clearance to each side of center line extended above meter/regulator assembly.
I	3 ft (91 cm)	3 ft (91 cm)*	Radial clearance around service regulator vent outlet.
J	12 in (30 cm)	9 in (23 cm)	Clearance to non-mechanical air supply inlet to building, or the combustion air inlet to any other appliance.
К	6 ft (1.83 m)	3 ft (91 cm) above if within 10 ft (3 m) horizontally	Clearance to mechanical air supply inlet.
L	7 ft (2.13 m ^{)t}	7 ft (2.13 m) ^{*t}	Clearance above paved sidewalk or paved driveway located on public property.
М	12 in / 30 cm ⁺	12 in / 30 cm* ⁺	Clearance under verandah, porch, deck, or balcony.
N	12 in (30 cm)*		Clearance horizontally to any surface (such as an exterior wall) for vertical terminations.
0	12 in (30 cm)		Clearance above roof line for vertical terminations.

 $^{^1}$ In accordance with the current CSA B149, Natural Gas and Propane Installation Code. 2 In accordance with the current ANSI Z223.1 NFPA 54, National Fuel Gas Code.

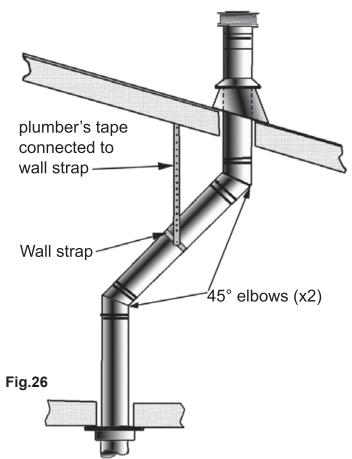
Clearances are in accordance with local installation codes and the requirements of the gas supplier.

NOTE: Venting terminals shall not be recessed into walls or siding.

^{*} These numbers are only estimates.

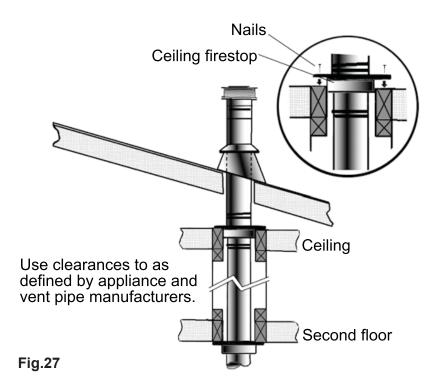
A vent shall not terminate directly above a side walk or paved driveway that is located between two single family dwellings and it serves both dwellings.

Permitted only if verandah, porch, deck, or balcony is fully open on a minimum of two sides beneath the floor.



NOTE:

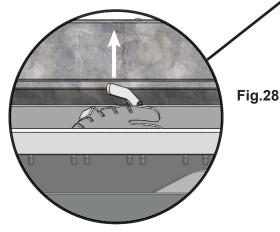
- If an offset is necessary in the attic to avoid obstructions, it is important to support the vent pipe every 3'0" (914 mm), to avoid excessive stress on the elbows, and possible separation. Use wall straps as needed. (Fig.26)
- As much as possible use 45° elbows rather than 90° elbows. With 45° elbows there is less restriction to the flow of flue gases and intake air.
- For multi story installations; a ceiling firestop is required at the second floor, and any subsequent floors (Fig.27). The opening should be framed to 10" (254 mm) x 10" (254 mm) inside dimensions, in the same manner as shown in (Fig.25).
- Any occupied areas above the first floor, including closets and storage spaces, which the vertical vent passes through, must be enclosed. The enclosure may be framed and sheet-rocked with standard building materials. However consult the appliance manufactures installation instructions for the minimum allowable clearance between the outside of the vent pipe, and the combustible surfaces of the enclosure. Do not fill any required air spaces with insulation.



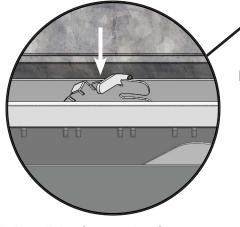
VENT RESTRICTOR

Due to the high draft produced by certain venting configurations the vent restrictor may be adjusted to maintain performance. If vent restriction is necessary it can be adjusted as follows:

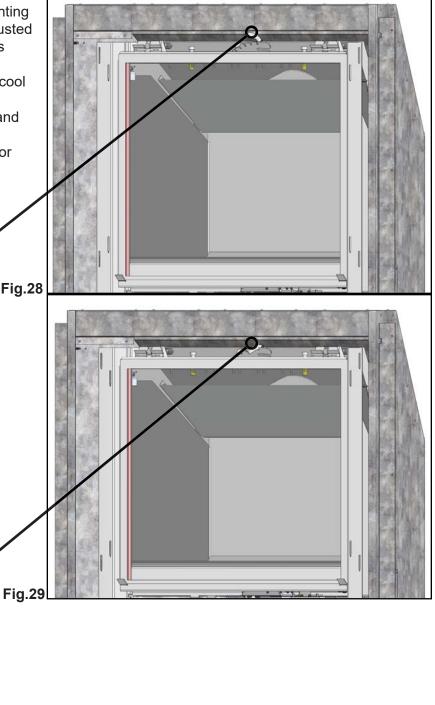
- 1. Turn off the appliance and allow it to cool down completely.
- 2. Remove the face and safety screen and set them aside.
- 3. Lift the restrictor tab off of the restrictor index plate. (Fig.28)



4. Adjust the restrictor index plate to one of the slots to obtain desired flame and reset the restrictor tab into the restrictor index plate slot. (Fig.29)



5. Reinstall the face and safety screen.



AIR SHUTTER ADJUSTMENT

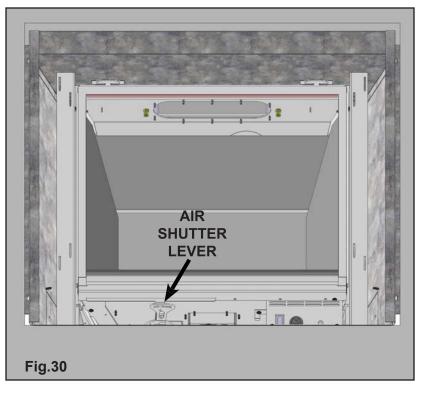
The air shutter allows the amount of air coming into the burner to be adjusted in order to accommodate different climates and venting arrangements.

- Remove the face trim to access the air shutter adjustment lever, it is in the lower left-hand side. (Fig.30)
- 2. Loosen the screw that locks the air shutter lever to the appliance.
- 3. Start the pilot and then the burner. Allow the appliance to operate for 15 minutes before making any air adjustments.
- 4. The ideal flame will be blue at the base and light orange above. If the flames are short and mostly blue, the fireplace is getting too much air. Therefore, the air shutter should be closed slightly until the correct flames are achieved. Slide the air shutter to the right to reduce the amount of air.
- 5. Flames that are very orange, with tall, dark, stringy tips, are not getting enough air. Therefore, the air shutter should be opened slightly until the correct flames are achieved. Slide the air shutter to the left to increase the amount of air.
- 6. Tighten air shutter lock screw.



The ideal flame will be blue at the base and light orange above. If the flames are short and mostly blue, the fireplace is getting too much air. Therefore, the air shutter should be closed slightly until the correct flames are achieved, see air shutter adjustment above.

Flames that are very orange, with tall dark, stringy tips, are not getting enough air. Therefore, the air shutter should be opened slightly until the correct flames are achieved, see air shutter adjustment above.



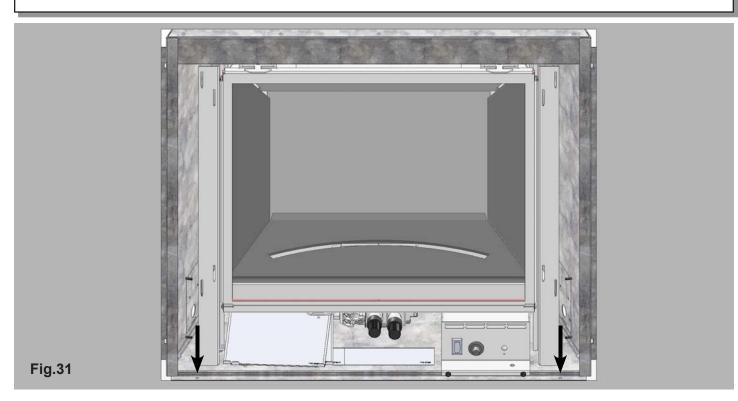


MOBILE HOME INSTALLATION

The CLARITY CL2118 can be installed in a mobile home but must be securely fastened to the floor. Use the provided mounting holes to secure the appliance to the framining.(**Fig.31**) Ensure the unit is electrically grounded permanently to the chassis of the home.

MARNING

THE STRUCTURAL INTEGRITY OF THE MANUFACTURED HOME'S FLOOR, WALL, AND CEILING/ ROOF MUST BE MAINTAINED.



ELECTRICAL REQUIREMENTS:

MARNING

ELECTRICAL GROUNDING INSTRUCTIONS

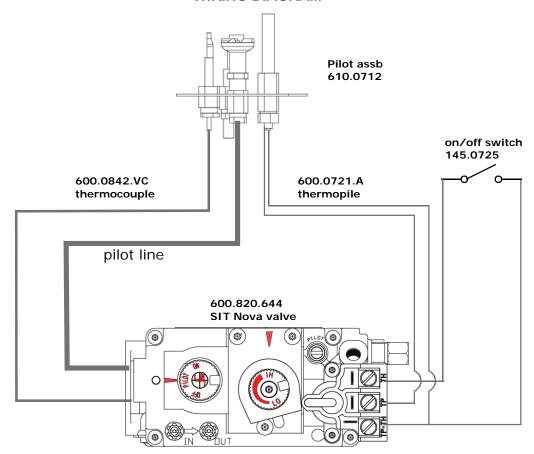
THIS APPLIANCE IS EQUIPPED WITH A JUNCTION BOX AND GROUND SCREW FOR YOUR PROTECTION AGAINST SHOCK HAZARD. ENSURE PROPER GROUNDED WIRING IS SUPPLIED AND CONNECTED TO THIS UNIT.

ELECTRICAL GROUNDING INSTRUCTIONS

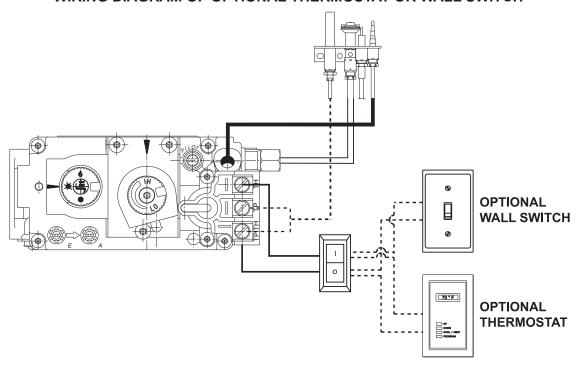
LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS. WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION.

VERIFY PROPER OPERATION AFTER SERVICING.

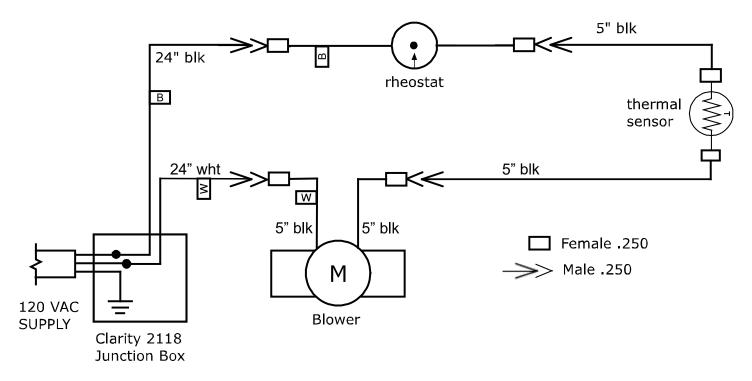
WIRING DIAGRAM



WIRING DIAGRAM OF OPTIONAL THERMOSTAT OR WALL SWITCH



CONFIGURATION FOR S.Z5216.SP CLARITY CL2118 SP FAN WIRING



M&G DURAVENT DIRECTVENT PRO / GS SYSTEM PARTS LIST				
DESCRIPTION	PART	OLD PART		
6" Pipe Length -Black	46DVA-06B	908B		
6" Pipe Length –Galvanized	46DVA-06	908		
8,5" Black Extension (3"-7")	46DVA-08AB	-		
8,5" Galvanized Extension (3"-7")	46DVA-08A	-		
9" Pipe Length-Black	46DVA-09B	907B		
9" Pipe Length-Galvanized	46DVA-09	907		
12" Pipe Length-Black	46DVA-12B	906B		
12" Pipe Length-Galvanized	46DVA-12	906		
16" Black Extension (3"-14.5")	46DVA-16AB	-		
16" Galvanized Extension (3"-14.5")	46DVA-16A	-		
24" Pipe Length-Black	46DVA-24B	904B		
24" Pipe Length-Galvanized	46DVA-24	904		
36" Pipe Length-Black	46DVA-36B	903B		
36" Pipe Length-Galvanized	46DVA-36	903		
48" Pipe Length-Black	46DVA-48B	902B		
48" Pipe Length-Galvanized	46DVA-48	902		
11"- 14 5/8" Adjustable Pipe Length-Black	-	911B		
17"- 24" Adjustable Pipe Length-Black	-	917B		
45° Elbow-Black	46DVA-E45B	945B, 945BG		
45° Elbow-Galvanized	46DVA-E45	945, 945G		
90° Elbow-Galvanized	46DVA-E90	990, 990G		
90° Elbow-Black	46DVA-E90B	990B, 990BG		
Vertical High Wind Termination Cap (must be used for all vertical terminations)	46 DVA-VCH	991		
Horizontal. Square Termination Cap	-	984		
Wall Thimble Cover—Support Box	46DVA-DC	940		
Cathedral Ceiling Support Box	46DVA-CS	941		
Brass Trim fro Ceiling Support Box	-	3951		
Firestop Spacer	46DVA-FS	963		
Flashing 0/12-6/12	46DVA-F6	943		
Flashing 7/12-12/12	46DVA-F12	943S		
Storm Collar	46DVA-SC	953		
Vinyl Siding Standoff	46DVA-VSS	950		
Wall Strap	46DVA-WS	988		
Wall Pen Heat Shield (Wall Thimble)	46DVA-WT	942		
Snorkel H2 termination cap	46DVA-H2-SNK36			

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BDM PARTS LIST				
PART	DESCRIPTION			
4" x 6 5/8" DIRECT VENT PIPE:				
94610606	6" GALVANIZED	PRO FORM DV PIPE		
94610606B	6" GALVANIZED	PRO FORM DV PIPE BLACK		
94610609	9" GALVANIZED	PRO FORM DV PIPE		
94610609B	9" GALVANIZED	PRO FORM DV PIPE BLACK		
94610612	12" GALVANIZED	PRO FORM DV PIPE		
94610612B	12" GALVANIZED	PRO FORM DV PIPE BLACK		
94610618	18" GALVANIZED	PRO FORM DV PIPE		
94610618B	18" GALVANIZED	PRO FORM DV PIPE BLACK		
94610624V	24"GALVANIZED	PRO FORM DV PIPE		
94610624B	24" GALVANIZED	PRO FORM DV PIPE BLACK		
94610636	36" GALVANIZED	PRO FORM DV PIPE		
94610636B	36" GALVANIZED	PRO FORM DV PIPE BLACK		
94610648	48" GALVANIZED	PRO FORM DV PIPE		
94610648B	48" GALVANIZED	PRO FORM DV PIPE BLACK		
4" x 6 5/8" ADJUSTABLE PIPE EX	TENSION:			
94610608A	4" to 8.5" GALVA	NIZED PRO FORM DV ADJUSTABLE PIPE EXTENSION		
94610608AB	4" to 8.5" GALVA	4" to 8.5" GALVANIZED PRO FORM DV ADJUSTABLE PIPE EXTENSION BLACK		
94610616A	4" to 16" GALVANIZED PRO FORM DV ADJUSTABLE PIPE EXTENSION			
94610616AB	4" to 16" GALVANIZED PRO FORM DV ADJUSTABLE PIPE EXTENSION BLACK			
DIRECT VENT ELBOWS:				
94620630	30 DEG GALVAN	IZED PRO FORM DV ELBOW		
94620630B	30 DEG GALVAN	IZED PRO FORM DV ELBOW BLACK		
94620645	45 DEG GALVAN	IZED PRO FORM DV ELBOW		
94620645B	45 DEG GALVAN	IZED PRO FORM DV ELBOW BLACK		
94620660	60 DEG GALVAN	IZED PRO FORM DV ELBOW		
94620660B	60 DEG GALVAN	IZED PRO FORM DV ELBOW BLACK		
94620690	90 DEG GALVAN	IZED PRO FORM DV ELBOW		
94620690B	90 DEG GALVAN	IZED PRO FORM DV ELBOW BLACKVV		
ELBOW AND WALL STRAPS:				
949264	4" INSIDE 6 5/8"	PRO FORM ELBOW STRAP		
949164	4" INSIDE 6 5/8"	PRO FORM WALL STRAP		
TYPE	PART	DESCRIPTION		
WALL THIMBLES:				
Telescoping	949064S	4" INSIDE 6 5/8" PRO FORM DV TELESCOPING WALL THIMBLE		
Universal	949064U	4" INSIDE 5/8" PRO FORM DV UNIVERSAL WALL THIMBLE		
TERMINATION CAPS:				
Horizontal Co-Axial	940164	4" INSIDE 6 5/8" HORIZONTAL CO-AXIAL PRO FORM TERM CAP		
Horizontal Wind/Heat Shroud:	940164SHRD	4" INSIDE 6 5/8" HORIZONTAL TERMINATION CAP WIND/HEAT SHROUD		

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BDM PARTS LIST cont.				
TYPE	PART	DESCRIPTION		
OTHER COMPONENTS				
Vertical Round Co-Axial Caps:	940264	4" INSIDE 6 5/8" ROUND VCA PRO FORM DV TERM CAP		
Ceiling Firestop:	94980612	4" INSIDE 6 5/8" PRO FORM DV CEILING FIRESTOP		
Attic Insulation Shield:	94930620A	4" INSIDE 6 5/8"PRO FORM DV ATTIC INSULATION SHIELD (Adjustable)		
Cathedral Celing Support Kit:	949506KT	4" INSIDE 6 5/8" PRO FORM DV CATHEDRAL CEILING SUPPORT KIT		
Decorator Collar:	94940612	4" INSIDE 6 5/8" PRO FORM DV DECORATOR COLLAR		
SS Counter Flashing 4 Pc. Kit:	94820615S	4" INSIDE 6 5/8" PRO FORM DV SS COUNTER FLASHING 4 PC. KIT		
SS Vinyl Siding Standoff:	94800615S	4" INSIDE 6 5/8" PRO FORM DV SS VINYL SIDING STANDOFF		

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	SELKIRK PAR	RTS LIST			
PRODUCT NUMBER	PART	DESCRIPTION			
4" x 6 5/8" LENGTHS					
1604006	4DT- 6	DIRECT-TEMP 6" PIPE LENGTH			
1604006B	4DT- 6B	DIRECT-TEMP 6" PIPE LENGTH BLACK			
1604009	4DT- 9	DIRECT-TEMP 9" PIPE LENGTH			
1604009B	4DT- 9B	DIRECT-TEMP 9" PIPE LENGTH BLACK			
1604012	4DT-12	DIRECT-TEMP 12" PIPE LENGTH			
1604012B	4DT-12B	DIRECT-TEMP 12" PIPE LENGTH BLACK			
1604018	4DT-18	DIRECT-TEMP 18" PIPE LENGTH			
1604018B	4DT-18B	DIRECT-TEMP 18" PIPE LENGTH BLACK			
1604024	4DT-24	DIRECT-TEMP 24" PIPE LENGTH			
1604024B	4DT-24B	DIRECT-TEMP 24" PIPE LENGTH BLACK			
1604036	4DT-36	DIRECT-TEMP 36" PIPE LENGTH			
1604036B	4DT-36B	DIRECT-TEMP 36" PIPE LENGTH BLACK			
1604048	4DT-48	DIRECT-TEMP 48" PIPE LENGTH			
1604048B	4DT-48B	DIRECT-TEMP 48" PIPE LENGTH BLACK			
1604082	4DT-AJ12	DIRECT-TEMP 12" ADJ PIPE LENGTH			
1604082B	4DT-AJ12B	DIRECT-TEMP 12" ADJ PIPE LENGTH BLACK			
1604084	4DT-TL14	DIRECT-TEMP TELESCOPIC LENGTH 14"-22"			
1604084B	4DT-TL14B	DIRECT-TEMP TELESCOPIC LEN BLACK 14"-22"			
1604086	4DT-TL38	DIRECT-TEMP TELESCOPIC LENGTH 38"-70"			
1604086B	4DT-TL38B	DIRECT-TEMP TELESCOPIC LEN 38"-70" BLACK			
4" x 6 5/8" FITTINGS					
1604215	4DT-EL45	45 DEGREE ELBOW			
1604215B	4DT-EL45B	45 DEGREE ELBOW BLACK			
1604230S	4DT-EL90S	90S DEGREE ELBOW			
1604230SB	4DT-EL90SB	90S DEGREE ELBOW BLACK			
4" x 6 5/8" ADAPTERS					
1604245B	4DT-AA	APPLIANCE ADAPTER BLACK			
1604246B	4DT-AAV	APPLIANCE ADAPTER VERMONT CASTING BLACK			
1604247B	4DT-AA47	APPLIANCE ADAPTER UNIVERSAL/NAPOLEON 4x7			
1604806	4DT-VS	VINYL SIDING STANDOFF			
4" x 6 5/8" ACCESSORIES					
1604285	4DT-RD	RESTRICTION DISK			
1604460B	4DT-WT	WALL THIMBLE BLACK			
1604500	4DT-FS	FIRESTOP SPACER			
1604502	4DT-TP	TRIM PLATE BLACK			
1604806	4DT-VS	VINYL SIDING STANDOFF			
2003503	4DTVSK	VINYL SIDING STANDOFF ROUND			
1604490	4DT-AIS	ATTIC INSULATION SHIELD			

SELKIRK PARTS LIST cont.				
PRODUCT NUMBER	PART	DESCRIPTION		
4" x 6 5/8" SUPPORTS				
1604400	4DT-CS	CEILING SUPPORT		
1604424	4DT-CCS	CATHEDRAL SUPPORT BOX		
1604430	4DT-WS/B	WALL SUPPORT/BAND		
1604435	4DT-OS	OFFSET SUPPORT		
4" x 6 5/8" TERMINATIONS AND FLASHINGS				
1604620	4DT-VKC	VERTICAL TERMINATION KIT		
1604621	4DT-HKA	HORIZONTAL TERMINATION KIT "A"		
1604622	4DT-HKB	HORIZONTAL TERMINATION KIT "B"		
1604802	4DT-VC	HIGH WIND VERTICAL CAP		
1604804	4DT-HC	HORIZONTAL CAP		
1604810	4DT-SC	STORM COLLAR		
1604825	4DT-AF6	ADJ FLASH 0/12-06/12		
1604830	4DT-AF12	ADJ FLASH 6/12-12/12		
1604838	4DT-ST36	SNORKEL TERMINATION 36"		

AMERIVENT PARTS LIST						
	4" x 6 5/8" LENGTHS					
PART	DESCRIPTION	PART	DESCRIPTION			
4D7	7" Length	4D90L	90° Elbow			
4D7B	7" Length - Black	4D90LB	90° Elbow - Black			
4D12	12" Length	4DWT	Wall Thimble			
4D12B	12" Length - Black	4DVC	Vertical Cap			
4D2	24" Length	502672	Horizontal Cap, Square 4DHCS			
4D2B	24" Length - Black	4D36S	Siding Shield for 4DHCS (4DHVS)			
4D3	36" Length	4DHWS	Wind Screen			
4D3B	36" Length - Black	4DWS	Wall Strap			
4D4	48" Length	4DFSP	Firestop Support Plate			
4D4B	48" Length - Black	4DF	Flashing - 0/12-6/12 Pitch			
4D7A	7" Adjustable Length	4DF12	Flashing - 6/12-12/12 Pitch			
4D7AB	7" Adjustable Length - Black	4DSC	Storm Collar			
4D12A	12" Adjustable Length	4DAIS12	Attic Insulation Shield			
4D12AB	12" Adjustable Length - Black	4DCAT43	Attic Insulation Shield - Cold Climates			
4D16A	16" Adjustable Length	4DVTK	Vertical Kit*			
4D16AB	16" Adjustable Length - Black	4DHTK1	Horizontal Kit #1**			
4D26A	26" Adjustable Length	4DHTK2	Horizontal Kit #2***			
4D26AB	26" Adjustable Length - Black	4DFPB	Face Plate for Ceiling Support/Wall Thimble - Black			
4D45L	45° Elbow	4DRSB	Roof Support - Black			
4D45LB	45° Elbow - Black					

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OLYMPIA PARTS LIST				
PART	DESCRIPTION	PART	DESCRIPTION	
VDV-0406	4" x 6" L Direct Vent Pipe	VDVB-0424	4"x24"L Direct Vent Black Pipe	
VDV-0406-6	4" x 6" DV Pipe 6 Pack	VDVB-0436	4"x36"L Direct Vent Black Pipe	
VDV-0406SL	4" x 6" Direct Vent Slip Sec.	VDVB-0448	4"x48"L Direct Vent Black Pipe	
VDV-0409	4" x 9" L Direct Vent Pipe	VDVB-04LT	4" Large Telescoping Section	
VDV-0409SL	4" x 9" Direct Vent Slip Sec.	VDVB-04MT	4" Medium Telescoping Section	
VDV-0412	4" x 12" L Direct Vent Pipe	VDVB-04ST	4" Small Telescoping Section	
VDV-0416SL	4" x 16" Direct Vent Slip Sec	VDVB-EL0445	4" x 45" Deg Direct Vent Elbow	
VDV-0418	4" x 18" L Direct Vent Pipe	VDVB-EL0490	4" x 90" Deg Direct Vent Elbow	
VDV-0424	4" x 24" L Direct Vent Pipe	VDVB-UAA04	4" Universal Appliance Adapter	
VDV-0436	4" x 36" L Direct Vent Pipe			
VDV-0448	4" x 48" L Direct Vent Pipe			
VDV-04LT	4" Large Telescoping Section			
VDV-04MT	4" Medium Telescoping Section			
VDV-04ST	4" Small Telescoping Section			
VDV-AIS04	4" Attic Insulation Shield			
VDV-CAC04	4" Co-Linear Appliance Adapter			
VDV-CRS04	4" Round Support Box			
VDV-CSS04	4" Square Support Box			
VDV-EL0445	4" x 45" Deg Direct Vent Elbow			
VDV-EL0445-6	4" x 45" Deg DV Elbow 6 Pack			
VDV-EL0490	4" x 90" Deg Direct Vent Elbow			
VDV-EL0490-6	4" x 90" Deg DV Elbow 6 Pack			
VDV-F0406	4" 0/12-6/12 Flashing			
VDV-F0412	4" 7/12-12/12 Flashing			
VDV-F04F	4" Flat Flashing			
VDV-FS04	4" Fire Stop Shield			
VDV-HC04	4" Direct Vent Horizontal Cap			
VDV-KW04	4" Direct Vent WPT Kit			
VDV-SC04	4" Storm Collar			
VDV-SSO	Siding Stand-Off			
VDV-SSO4	4" Siding Stand-Off			
VDV-VC04	4" Direct Vent Vertical Cap			
VDV-VCH04	4" High Wind Vertical Cap			
VDV-WPT04	4" Direct Vent Wall Pass Thru			
VDV-WS04	4" Wall Support			
VDV-WTC04	4" DirectVent Wall Trim Collar			
VDVB-0406	4" x6"L Direct Vent Black Pipe			
VDVB-0406SL	4" x 6" Direct Vent Slip Sec.			
VDVB-0409	4" x9"L Direct Vent Black Pipe			
VDVB-0409SL	4" x 9" Direct Vent Slip Sec.			
VDVB-0412	4"x12"L Direct Vent Black Pipe			
VDVB-0416SL	4" x 16" Direct Vent Slip Sec			
VDVB-0418	4"x18"L Direct Vent Black Pipe	+		

ICC PARTS LIST	
4" x 6 5/8" LENGTHS	
DESCRIPTION	PART
6" Length - Galvalume	TC-4DL6
6" Length - Black	TC-4DL6B
9" Length - Galvalume	TC-4DL9
9" Length - Black	TC-4DL9B
12" Length - Galvalume	TC-4DL1
12" Length - Black	TC-4DL1B
12" Slip Length - Galvalume	TC-4DLS1
12" Slip Length - Black	TC-4DLS1B
24" Length - Galvalume	TC-4DL2
24" Length - Black	TC-4DL2B
24" Slip Length - Galvalume	TC-4DLS2
24" Slip Length - Black	TC-4DLS2B
18"-30" Adjustable Length (2 pieces)	TC-4DLA30
18"-30" Adjustable Length - Black (2 pieces)	TC-4DLA30B
36" Length - Galvalume	TC-4DL3
36" Length - Black	TC-4DL3B
48" Length - Galvalume	TC-4DL4
48" Length - Black	TC-4DL4B
4" x 6 5/8" ELBOWS	
Elbow 45° - Galvalume	TE-4DE45
Elbow 45° - Black	TE-4DE45B
Elbow 90° - Galvalume	TE-4DE90
Elbow 90° - Black	TE-4DE90B
Slip Elbow 90°	TE-4DE90S
Slip Elbow 90° - Black	TE-4DE90SB
4" x 6 5/8" SUPPORTS & FIRESTOPS	
Square Support / Radiation Shield	TM-4SS
Round Support / Radiation Shield	TM-4RDS
Ceiling Support / Firestop	TM-4CS
Insulated Wall Thimble	TM-4WT
Wall Thimble Extension	TM-4WTE
Attic Radiation Shield / Firestop	TM-4AS
Ajustable Wall Support	TM-WS
Offset Support	TM-OS
Trim Ring - Black	TM-4TR
Trim Plate - Black	TM-4TP
O'Ring (included with Trim)	TM-4OR
4" x 6 5/8" TERMINATIONS	
Small Vertical Termination (must be used with TM-4SVTS)	TM-4SVT
Rain/Wind Shield for SVT & IVT (must be used with TM-4SVT)	TM-4SVTS
Horizontal Termination	TM-4HT

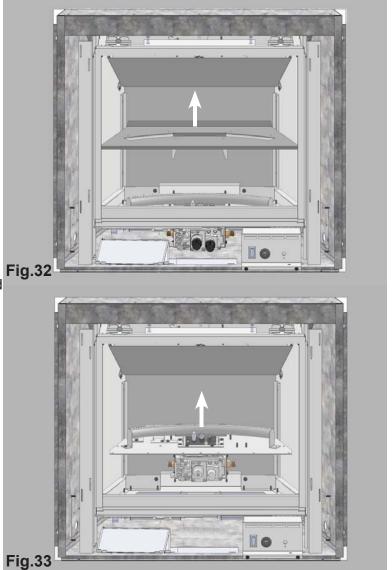
VALVE REMOVAL & INSTALLATION

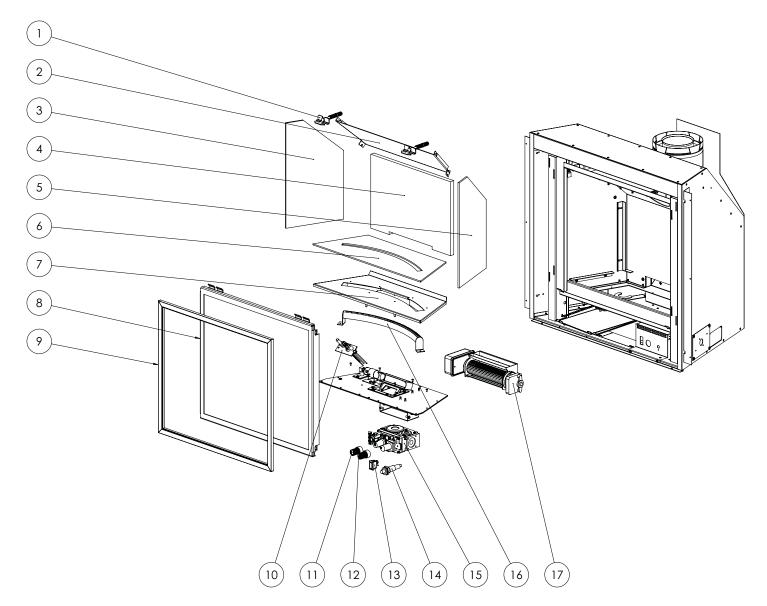
TO BE DONE BY QUALIFIED PERSONNEL ONLY

- 1. Turn off the gas valve, disconnect the gas and electricity to the appliance.
- Remove the face trim, safety screen, and glass door as shown in "GLASS DOOR REMOVAL"
- 3. If the optional log set is being used note locations, remove, and set aside.
- 4. Remove floor glass and side panels, and set aside.
- 5. Remove the floor plate assembly and set aside. (**Fig.32**)
- 6. Undo the inlet gas lines from valve.
- 7. Disconnect all electrical connections to valve including ground wire.
- 8. Remove the screws securing the burner and valve assembly to the to the firebox. Pull the burner and valve assembly up out of the firebox. (**Fig.33**)
- 9. Undo the gas lines and pilot line from the valve.
- 10. Remove the four screws holding the valve and valve bracket to the firebox bottom and remove the valve.
- 11. Installation is the reverse order of the previous steps.

NOTE: WHEN INSTALLING NEW VALVE, CHECK THAT ALL UNUSED PORTS ARE PLUGGED.

CHECK OUTLET PRESSURE (3.8" W.C.)
NOTE: CHECK FOR LEAKS





ITEM NO.	PART NUMBER	DESCRIPTION	ITEM NO.	PART NUMBER	DESCRIPTION
1	Z5151	WINDOW LATCH ASSEMBLY	10	610.0712	PILOT ASM ADJ NG_LPG PSE
2	5103	FIREBOX BAFFLE	11	600.SIT.013	EXTENSION KNOB HI LO 1.5"
3	130.0501.L	GLASS CERAM MIRROR LEFT	12	600.SIT.012	EXTENSION KNOB ON/OFF 1.5"
4	620.5101	CERAMIC PANEL REAR CLARITY	13	145.0725	SWITCH ON OFF LARGE
5	130.0501.R	GLASS CERAM MIRROR RIGHT	14	600.SIT.011	PIEZO WITH NUT
6	130.0601	BLACK FLOOR GLASS	15	600.820.644	VALVE M_V_NOVA NG 3.5-1.6
7	Z5104	FLOOR PLATE RIVET ASM	16	640.5101	BURNER ASM CLARITY
8	S.Z5175	GLASS DOOR ASSEMBLY	17	S.Z5216.SP	OPTIONAL SP FAN KIT (COMPLETE)
9	645.1821	SAFETY SCREEN 21" X 18.5"			

TROUBLESHOOTING

Please check to make sure the instructions are followed exactly before attempting trouble shooting of the appliance.

MARNING

TROUBLESHOOTING AND SERVICING OF GAS AND ELECTRICAL DEVICES OF THE APPLIANCE SHOULD ONLY BE CONDUCTED BY A QUALIFIED SERVICE TECHNICIAN.

PROBLEM	POSSIBLE CAUSE	ACTION	
The main burner does not ignite when called for.	The gas valve may not be on.	Check that the gas control knob is in the "ON" position.	
	Problem with gas valve.	 Use a DC voltmeter to measure the voltage across the TPTH and TP terminals. Main operator voltage: Open circuit ≥ 325mV Closed circuit ≥ 100mV If voltage is not present, check the control circuit for proper operation. If proper control system voltage is present, replace the gas control. 	
Spark will not light the pilot after repeatedly pressing the spark ignitor.	Defective piezo ignitor.	 Check connections to ignitor. If ignitor connections are good but no spark, replace ignitor. 	
	Broken spark electrode.	Check for broken ceramic insulation, replace electrode if broken.	
	Misaligned spark electrode.	If spark is not arcing from electrode to pilot, loosen the screws on the pilot base adjust and tighten.	
Pilot will not remain lit.	Problem with thermocouple circuit.	 Check for proper connection of the thermocouple to the rear of the valve. If loose, fully tighten. Check pilot for full flame impingement around thermocouple. If flame is too small, check gas pressure, adjust pilot rate screw, check pilot head for damage. Check thermocouple voltage at valve. It must be greater than 5 mV. If low, replace thermocouple. 	
	Air in gas line (pilot dies while knob is depressed).	Bleed line.Check gas line pressure.Contact dealer	
Burners will not remain lit.	Problem with thermopile circuit.	 Check gas line pressure. Check for flame impingement on thermopile. If low, see "Pilot will not remain lit". Check thermopile for minimum of 300 mV when burner is switched on. Check wiring to thermostat for breaks. 	
Flame lifting	Leak in vent pipe	Check for leaks in vent connections.	
	Improper vent configuration	Check vent configuration with manual.	
	Terminal may be recirculating flue gases	 Check to see if terminal is on correctly. May need to install high wind termination cap. Contact dealer. 	
Glass fogs up	Normal Condition: after the appliance warms up the glass will clear. **Due to additives in gas, glass may get hazy during operation** Clean as needed.		
Blue Flames	Normal during start up: flames will yellow as the fireplace heats up.		
Flames are burning "dirty" or sooting	 Check log positioning. Increase primary air by opening the venturi shutter and/by opening the vent restrictor. See also "Burners will no remain lit." 		

WARRANTY

BLAZE KING GAS LIMITED WARRANTY

Blaze King and its respective brands extend the following warranty for gas appliances purchased from an authorized Blaze King dealer and installed in the United States of America or Canada. Warranty starts with date of purchase by the original owner (End User) except as noted for replacement parts.

Warranty Period		Components Covered		
Parts Labor		Gas		
1 Year		X	All parts, materials and surface finishes (flaking and peeling). Except as covered by Conditions Exclusion, and Limitations listed	
2 Years		X	Igniters, Thermocouple, Thermopile Molded Refractory Panels, Log sets, Fan assembly, Ignition components, Gas valve, Burner components, Thermostat	
5 Years	2 Years	X	Firebox & Heat Exchanger	
10 Years 2 Years		X	All Exterior Steel Cabinets (excluding paint finishes) Glass (thermal breakage only)	
1 Year		Х	Other Replacement Parts	
See Conditions, Exclusions, and Limitations				

Blaze King Gas Limited 10 Year Warranty

Blaze King is the manufacturer of the Blaze King line of heating products. At Blaze King, our commitment to the highest level of quality and customer service is the most important thing we do. Each Blaze King stove is built on a tradition of using only the finest materials and is backed by our limited lifetime warranty to the original purchaser. With Blaze King, you're not just buying a fireplace or stove, you're buying a company with years of unequalled performance and quality.

Limited 10 Year Warranty:

Under this warranty, Blaze King covers the fireplace or stove, exterior body, pedestals, legs and glass (thermal breakage only) against defects in materials and workmanship, for part repair or replacement for (10) years from original purchase date and limited labor for the first two (2) years to the original purchaser. This warranty does not cover exterior finishes. Please see the exclusions and limitation section below as certain restrictions and exclusions apply to this warranty.

Limited 5 Year Warranty:

Under this warranty, Blaze King covers the fireplace or stove firebox and heat exchanger against defects in materials and workmanship, for part repair or replacement for the first five (5) years and limited labor for the first two (2) years to the original purchaser. This Warranty covers: Heat Exchanger, Steel Firebox Panels and any steel components not covered under the ten (10) year Warranty excluding burner components and gas components. Please see the exclusions and limitation section below as certain restrictions and exclusions apply to this warranty.

Limited Two (2) Year Warranty:

Under this warranty, Blaze King covers: Gas Assembly, Burner components (ceramic and steel), Log sets, Blower and control, Temperature Sensors, thermocouple, thermopile, electronic ignition components and wire harness against defects in materials and workmanship, for part repair or replacement for the first two (2) years and limited labor for the first two (2) years to the original purchaser. Please see the exclusions and limitation section below as certain restrictions and exclusions apply to this warranty.

Limited One (1) Year Warranty:

Under this warranty, Blaze King covers all exterior surface finishes against defects in materials and workmanship, for part repair or replacement and limited labor for the first (1) year to the original purchaser. Please see the exclusions and limitations section below as certain restrictions and exclusions apply to this warranty.

How the Warranty Works (Includes Conditions, Exclusions and Limitations)

- 1. All warranties by the manufacturer are set herein and no claim shall be made against the manufacturer on any oral warranty or representation. All claims under this Limited Warranty must be made in writing by your dealer.
- 2. Any stove or part thereof that is repaired or replaced during the Limited Warranty period will be warranted under the terms of the Limited Warranty for a period not exceeding the remaining term of the original Limited Warranty or six (6) months, whichever is longer.
- 3. For any part or parts of this stove, which in our judgment show evidence of defects, Blaze King reserves the option to repair or to replace the defective product through an accredited distributor or agent, provided the defective part is returned to the distributor or agent, transportation prepaid, if requested.
- 4. If you discover a problem that you think may be covered by the Limited Warranty, you MUST REPORT it to your Blaze King dealer WITHIN 30 DAYS from the date the problem was first detected, giving them proof of purchase and the date of purchase. The dealer will investigate the problem and work with Blaze King to determine whether the problem:
- a) Is covered by the Limited Warranty or
- b) Can be fixed in your home or does the product need to be returned to Blaze King for repair.
- 5. If Blaze King determines that the stove needs to be returned to Blaze King for repair, the customer has the responsibility and the expense of removing it from their home and shipping it to Blaze King. If the problem is covered by the Warranty, Blaze King will repair or replace the item at their discretion and the customer will be responsible for return shipping and re-installation in their home.
- 6. If the problem is not covered by the Limited Warranty, the customer will be responsible for all repair costs, as well as all storage, shipping and the cost of removing and re-installing the stove.

If you are not satisfied with the service provided by the Blaze King dealer, write to Blaze King at the address listed on the last page of the Owner's Manual. Include a copy of the original purchase invoice and a description of the problem.

Exclusions and Limitations:

- 1. This Warranty does not cover tarnish, discoloration or wear on the plated surfaces. Painted finishes will change colour after initial firing and will continue to change through the lifetime of the stove. This is normal occurrence for all high temperature coatings.
- 2. This Warranty excludes wear and tear or breakage caused by cleaning, moving or service on log set and panels.
- 3. Blaze King strongly recommends that installation be done by a certified installer. Failure to comply may adversely affect coverage under this warranty. This Limited Warranty covers defects in materials and workmanship only if the product has been installed in accordance with local building and fire codes; in their absence, refer to the owner's manual. If the product is damaged or broken as a result of any alteration, wilful abuse, mishandling, accident, neglect, or misuse of the product, the Limited Warranty does not apply.
- 4. The stove must be operated and maintained at all times in accordance with the instructions in the Owner's Manual. If the unit shows signs of neglect or misuse, it is not covered under the terms of this Warranty policy. Performance problems due to operator error will not be covered by the Limited Warranty policy.
- 5. Some minor expansion, contraction, or movement of certain parts and resulting noise, is normal and not a defect and, therefore, is not covered under this Limited Warranty.
- 6. Misuse includes over-firing. Over-firing this appliance can cause serious damage and will nullify the Limited Warranty.
- 7. The Limited Warranty will cover glass thermal breakage only and will not cover misuse of the stove glass, including but not limited to glass that is struck, has surface contaminates or has had harsh or abrasive cleaners used on it.
- 8. This warranty does not cover products made or provided by other manufacturers and used in conjunction with the operation of this stove without prior authorization from Blaze King The use of such products may nullify the Limited Warranty on this stove. If unsure as to the extent of this Limited Warranty, contact your authorized Blaze King dealer before installation.
- 9. Blaze King will not be responsible for inadequate performance caused by environmental conditions.
- 10. The Limited Warranty does not cover installation and operational related problems such as use of downdrafts or spillage caused by environmental conditions. Environmental conditions include but are not limited to nearby trees, buildings, roof tops, wind, hills, mountains, inadequate venting or ventilation, excessive offsets, negative air pressures or other influences caused by mechanical systems such as furnaces, fans, clothes dryers etc.
- 11. The Limited Warranty is void if:
- a) The stove has been operated in atmospheres contaminated by chlorine, fluorine or other damaging chemicals.
- b) The stove is subject to submersion in water or prolonged periods of dampness or condensation.
- c) Any damage to the unit, combustion chamber or other components due to water, or weather damage which is the result of, but not limited to, improper chimney/venting installation.
- d) Salt air in coastal areas or high humidity can be corrosive to the finish; these environmental can cause rusting. Damage caused by salt air or high humidity is not covered by the Limited Warranty.
- 12. Exclusions to the Limited Warranty include: injury, loss of use, damage, failure to function due to accident, negligence, misuse, improper installation, alteration or adjustment of the manufacturer's settings of components, lack of proper and regular maintenance, alteration, or act of God.
- 13. The Limited Warranty does not cover damage caused to the fireplace or stove while in transit. If this occurs, do not operate the stove and contact your courier and/or dealer.
- 14. Limited Warranty does not extend to or include firebox paint, door or glass gaskets with damage caused by normal wear and tear, or exterior paint discoloration or chipping, worn gaskets, etc.
- 15. The Limited Warranty does not include damage to the unit caused by abuse, improper installation, or modification of the unit.
- 16. Damage to plated surfaces caused by fingerprints, scratches, melted items, or other external scores and residues left on the plated surfaces from the use of abrasive cleaners or polishes is not covered in this warranty.
- 17. The Limited Warranty does not cover tarnish, discoloration or wear on the plated surfaces.
- 18. The paint on the brick liner may peel. It is not a flaw and is not covered under warranty, due to extreme conditions in the firebox.
- 19. Blaze King is free of liability for any damages caused by the fireplace or stove, as well as inconvenience expenses and materials. The Limited Warranty does not cover incidental or consequential damages.

- 20. The Limited Warranty does not cover any loss or damage incurred by the use or removal of any component or apparatus to or from the Blaze King fireplace or stove without the express written permission of Blaze King and bearing a Blaze King label of approval.
- 21. Any statement or representation of Blaze King Products and their performance contained in Blaze King advertising, packaging literature, or printed material is not part of the Limited Warranty.
- 22. The Limited Warranty is automatically voided if the fireplace or stove's serial number has been removed or altered in any way. If the stove is used for commercial purposes, it is excluded from the Limited Warranty.
- 23. No dealer, distributor, or similar person has the authority to represent or warrant Blaze King Products beyond the terms contained within the Limited Warranty. Blaze King assumes no liability for such warranties or representations.
- 24. Blaze King will not cover the cost of the removal or re-installation of the stove, hearth, facing, mantels, venting or other components.
- 25. Labor to replace or repair items under this Limited Warranty will be covered per our warranty service fee reimbursement schedule. Labor rates are set per component and as such total labor costs may not be covered.
- 26. If a defect or problem is determined by Blaze King to be non warrantable, Blaze King will not be liable for travel costs for service work. In the event of in-home repair work, the customer will pay any in-home travel fees or service charges required by the Authorized Dealer.
- 27. At no time will Blaze King be liable for any consequential damages which exceed the purchase price of the unit. Blaze King has no obligation to enhance or modify any stove once manufactured (example: as a stove model evolves, field modifications or upgrades will not be performed).
- 28. This Limited Warranty is applicable only to the original purchaser and it is non-transferable.
- 29. This warranty only covers Blaze King Products that are purchased through an authorized Blaze King dealer.
- 30. If for any reason any section of the Limited Warranty is declared invalid, the balance of the warranty remains in effect and all other clauses shall remain in effect.
- 31. The Limited Warranty is the only warranty supplied by Blaze King, the manufacturer of the stove. All other warranties, whether express or implied, are hereby expressly disclaimed and purchaser's recourse is expressly limited to the Limited Warranty.
- 32. Blaze King and its employees or representatives will not assume any damages, either directly or indirectly, caused by improper usage, operation, installation, servicing or maintenance of this stove.
- 33. Blaze King reserves the right to make changes without notice. Please complete and mail the warranty registration card and have the installer fill in the installation data sheet in the back of the manual for warranty and future reference.
- 34. Blaze King is responsible for stocking parts for a maximum of seven (7) years after discontinuing the manufacture or incorporation of the item into its products. An exception to this would be if an OEM supplier is not able to supply a part.

6	NOTES	Clarity CL2118 SI
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Installer: P	lease complete the following information	
Deeles Nes	aa 9 Aalahaaa	
Dealer Nan	ne & Address:	
Installer: _		
	led:	
Serial No.:		